



Low Voltage Products

ABB Low Voltage components Industrial and commercial applications

Version 0312

Power and productivity
for a better world™



General Information



Contents

Main Index.....	1/2
Information for wholesalers and stockists	1/4
About Voltimum.....	1/5
ABB publications.....	1/6

Knowledge Base

General Enquiries: LV.Enquiries@gb.abb.com
Customer Services: LV.CustomerService@gb.abb.com
Technical: LV.TechnicalSupport@gb.abb.com

Stockists

To find your nearest stockist, please visit:
<http://www.abb.co.uk/lowvoltage>

Sales Desk

Telephone: 02476 368676
Facsimile: 02476 368401
Credit Control: 01480 475321

If you already have an account you can place orders:

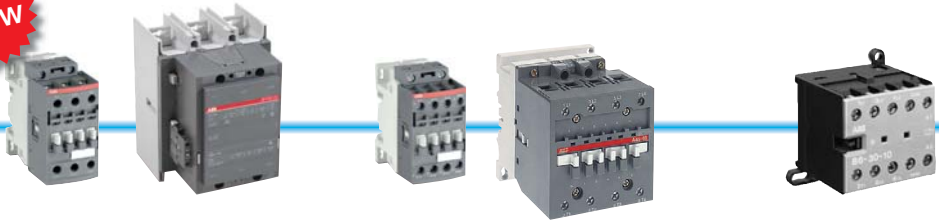
Online: <http://online.abb.com/bol>
Email: orders.lvp@gb.abb.com
Facsimile: 02476 368401

Easy view product finder

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1

Control



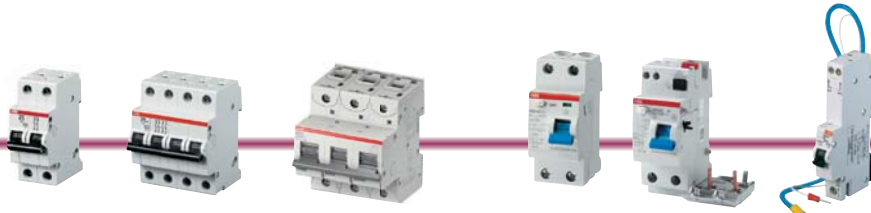
3 pole block contactors 1/8

4 pole block contactors 1/16

Mini block contactors 1/27

2

Installation



S200/280 series 2/4

S800 series 2/27

Earth leakage devices 2/47

3

Power Breakers



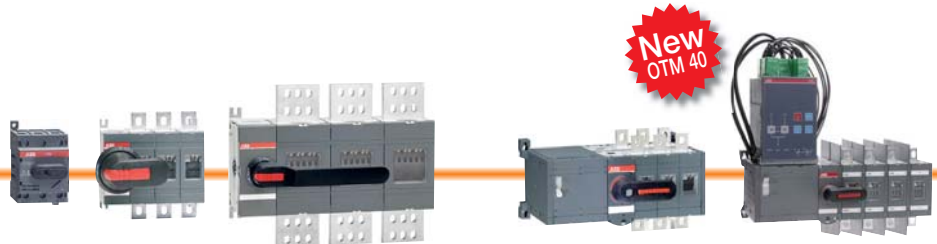
New XT Tmax X1... X4 3/6

Tmax T5...T7 3/12

Accessories 3/20

4

Switchgear



Switch disconnectors 4/2

Changeover and transfer switches 4/24

5

Enclosures



Sheet steel 5/4

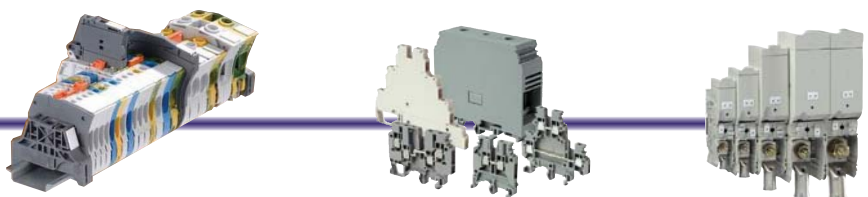
Insulated 5/6

Switchboards 5/8

Gemini enclosures 5/11

6

Terminals



SNK terminals 7/2

Multi-block terminals 7/14

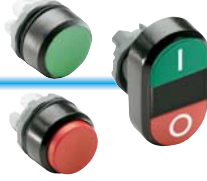
Power terminals 7-37



Manual motor starters 1/29



Soft starters 1/32



Pushbutton & pilot devices 1/35



Electronic relays 1/45

0



Accessories 2/57



Digital meters 2/60



Modular devices 2/61



Emax X1 3/35



Emax E1...E6 3/36



Accessories 3/50



Switch fuses 4/46



Motorised switch fuses 4/46



Slimline switch fuses 4/69



Cam switches 4/70

7

Jokab Safety

New



General overview 7/2

General Information

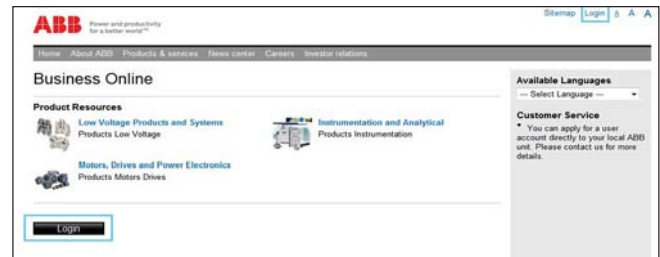
Wholesales and stockists

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We have created two dedicated publications focussing on our core products for industrial automation and contractor/installer markets.

You will find information on products including brief technical specification, short code, order code, LVE items and product hierarchy. (Example below)

70mm ² Feed Through Terminal Blocks		Product Hierarchy 300010	LVE Item
Type	Description	Order Code	
ZST0	70mm ² feed through terminal block (Grey) [pack size = 10]	1SNK922010P0000	•
ZST0-BL	70mm ² feed through terminal block (Blue) [pack size = 10]	1SNK922020P0000	•
ZST0-PE	70mm ² feed through terminal block, Ground (Green / Yellow) [pack size = 10]	1SNK922150P0000	•
Accessories			
JB22-2	Jumper bar, 2 pole, 22mm pitch [pack size = 5]	1SNK922302P0000	•
JB22-3	Jumper bar, 3 pole, 22mm pitch [pack size = 5]	1SNK922303P0000	•
JB22-5	Jumper bar, 5 pole, 22mm pitch [pack size = 5]	1SNK922305P0000	•



Product hierarchy

The Product Hierarchy has been included to assist in identifying discounts for particular product ranges when used in conjunction with the customer discount structure file.

LVE item

As a guide, we have indicated our fast running items in the column marked LVE Item with this symbol •, all other items are available on factory lead times.

Web portal

As a customer, you can also take advantage of the services provided by our web based on-line solutions.

From this portal you can obtain price and availability, check order status, obtain copy documentation and place orders on-line 24/7/365. If you have not already registered, you can do this by

About Voltimum

ABB is a founder member of Voltimum which was launched in 2003. Voltimum is an internet portal for the electrical industry and is active in 6 countries within Europe.

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The portal is backed by 7 leading European manufacturers of electrical installation products who have invested over 20 million euros in the project.



Other manufacturers join the Voltimum online catalogue regularly as they see this unique initiative as an opportunity to increase the awareness of their products, being used on a daily basis by electrical contractors.

Voltimum is headed by Bruno Hamon who is based in the Company's HQ in Geneva.

The initiative was first announced to the press in October 2000 and since then technical architecture of the portal has been designed and developed. Also in this period, 6 locally based teams were put in place to develop the portal in each country, adapting the portal to the needs of the local market and working with local providers of appropriate content.

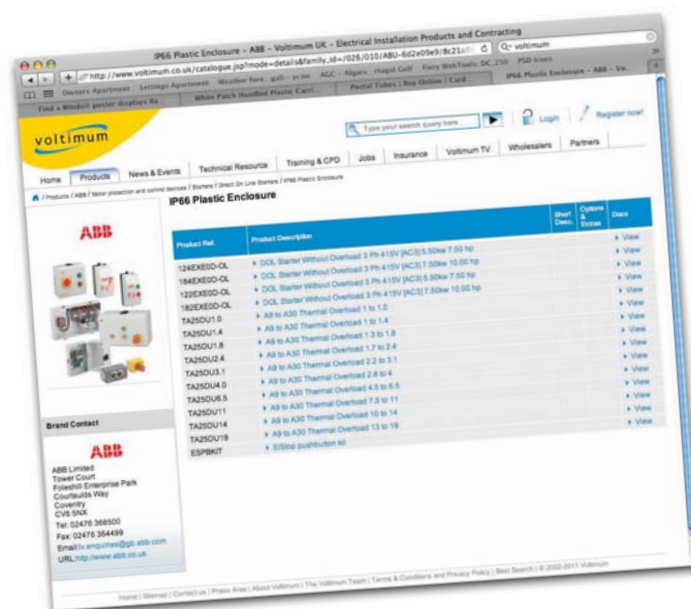


ABB Low Voltage technical publications

0

Integrated control range



New
Industrial Products
1SFC100155C0201

Block contactors



Industrial Products
1SFC100122C0202

Pilot devices



Industrial Products
1SFC151004C0201

Soft starters



Industrial Products
1SFC132005C0201

Relay & timers



Industrial Products
2CDC110004C0206

Installation equipment



Industrial Products
Contractor Products
2CSC400002D0208

KNX equipment



New
Contractor Products
2CDC50007B0207

Wiring accessories



Contractor Products
1SXF610007C0201

Watchdog PIRs



Contractor Products
9AKK104295D5667

MCCBs



New
Industrial Products
Contractor Products
1SDC210015D0204

ACBs



Industrial Products
1SDC200006D0207

Jokab safety



New
Industrial Products
2TLC172001C0201

Switch fuses



Industrial Products
Contractor Products
1SCC311013C0201

Switch disconnectors



Industrial Products
Contractor Products
1SCC301001C0201

Changeover switches



New
Industrial Products
1SCC303003C0201

XR SlimLine switch fuses



Industrial Products
1SEC311001C0201

Cam switches



Industrial Products
Contractor Products
1SCC302003C0201

Cewe plugs and sockets



New
Contractor Products
2CMC700014C0008

5000 series



Industrial Products
1SNK160001C0207

SNK series



Industrial Products
1SNK161001C0204

Solar PV products



New
Contractor Products
9AKK1051152A5119

Download centre

Our main technical catalogues are illustrated on this page.

Visit the ABB Library at:
<http://www.abb.com/abblibrary/DownloadCenter/>

or enter the catalogue number into a search engine to download the catalogue(s) you require.



Priced Edition on-line

Catalogue number
1TXD000001P0211

Industrial products

To view this publication on-line with our turning page technology type the URL below into your web browser, you do not have to download pdf files. Any price or product changes will be reflected on this URL at the review date. Save the URL in your favourites for future viewing.

<http://view.digi-page.net/?id=ABBIndustrialproducts>



Contractor products

<http://view.digi-page.net/?id=1TXD000001P0229>

Control



**New
AF Range**



Block contactors

Overview	1/2
3 pole contactors	1/8
4 pole contactors	1/16
Contactors relays	1/20
AF09 ... AF38 accessories and overload relays	1/21
A45 ... AF1650 accessories and overload relays	1/23
A50 ... AF750 overload relays.....	1/26
Mini contactors.....	1/27
Mini contactor overload relays & accessories	1/28

Manual motor starters

Manual motor starters	1/29
Manual motor starter accessories.....	1/30

Soft starters

Overview	1/32
PSR - PSE soft starts	1/33
PSS - PST soft starts	1/34

Push buttons & pilot devices

Compact range	1/35
Modular range.....	1/39

Electronic products & relays

Electronic products & relays	1/45
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1

New Range Contactors



Full range of product and technical information place this part number in a search engine and download

1SBC100155C0201

Block Contactors



Full range of product and technical information place this part number in a search engine and download

1SBC100122C0202

Electronic Products & Relays



Full range of product and technical information place this part number in a search engine and download

2CDC110004C0206

Pilot Devices



Full range of product and technical information place this part number in a search engine and download

1SFC151004C0201

Soft Starters

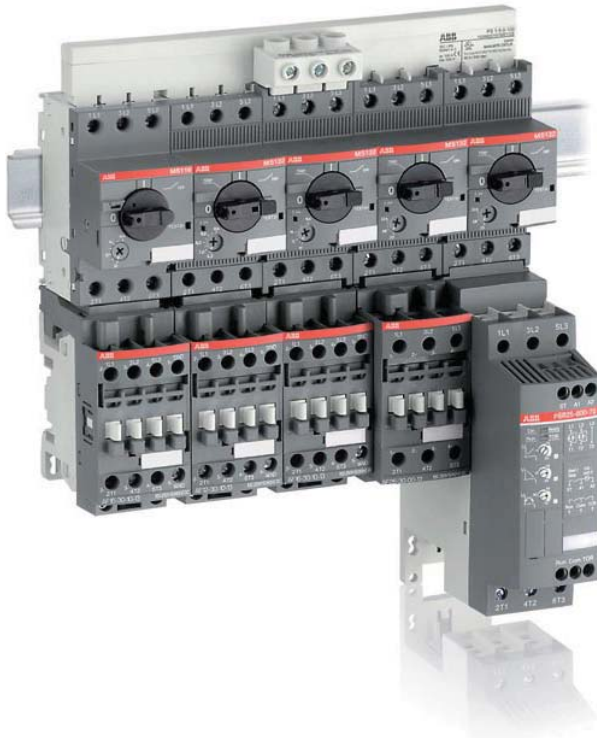


Full range of product and technical information place this part number in a search engine and download

1SFC132005C0201

Large choice of starting solutions in kit form

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Short-circuit and overload protection

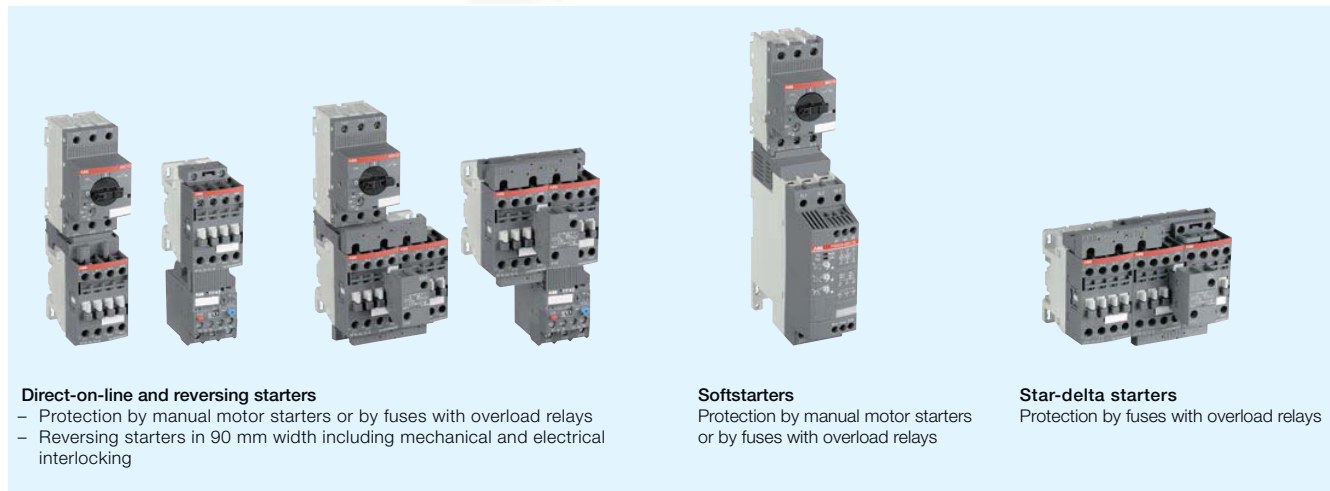
- Type 1 or type 2 coordination guaranteed with manual motor starters
- Choice of thermal or electronic overload relays

Simple construction

- All starters in 45 mm width module

Time/cost saving

- Same frame size for AC or DC control supply
- Easy, fast and secure assembly, fitting and wiring of components



Direct-on-line and reversing starters

- Protection by manual motor starters or by fuses with overload relays
- Reversing starters in 90 mm width including mechanical and electrical interlocking

Softstarters

- Protection by manual motor starters or by fuses with overload relays

Star-delta starters

- Protection by fuses with overload relays

Standardized busbars and optimized interconnection accessories

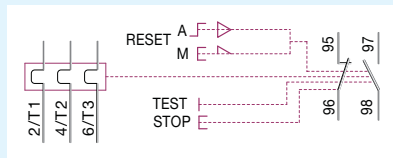
- Same 3-phase busbar and feeder range up to 100 A for manual motor starters
- Direct 35 mm rail mounting: no additional mounting plate required
- Complete range of connection links with manual motor starters and connection sets to build reversing and star-delta starters
- Easy installation and dismantling of contactors: no unwiring of manual motor starters





Protect your motors with thermal or electronic overload relays

- One range of TF42 thermal overload relays, trip class 10
- One range of EF19 and EF45 electronic overload relays up to 45 A, 7 setting ranges, trip class 10E, 20E, 30E
- Adjustable current setting ranges
- Overload protection with phase loss sensitivity
- Temperature compensation:
 - up to +60 °C for thermal overload relays
 - up to +70 °C for electronic overload relays
- Automatic or manual reset, sealable
- Stop and test function



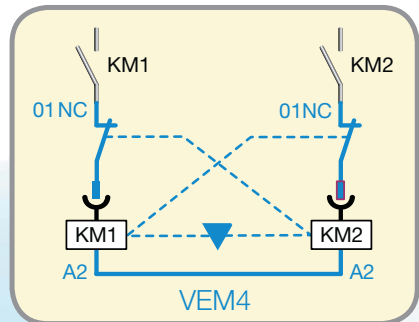
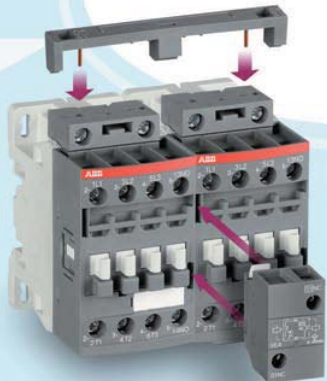
- Current setting range
- Reset function
- Test function
- Stop function



Interlock your reversing contactors quickly in 90 mm width:

- Easy with VM4 mechanical interlock unit
- Simple with VEM4 set including mechanical interlock unit and electrical interlock block with A2-A2 connection
- 50% wiring cost savings in one click!

Fixing the electrical interlock block to the contactor front face connects the 2 built-in N.C. interlocking contacts with the two coil supplies



MS116 and MS132 manual motor starters

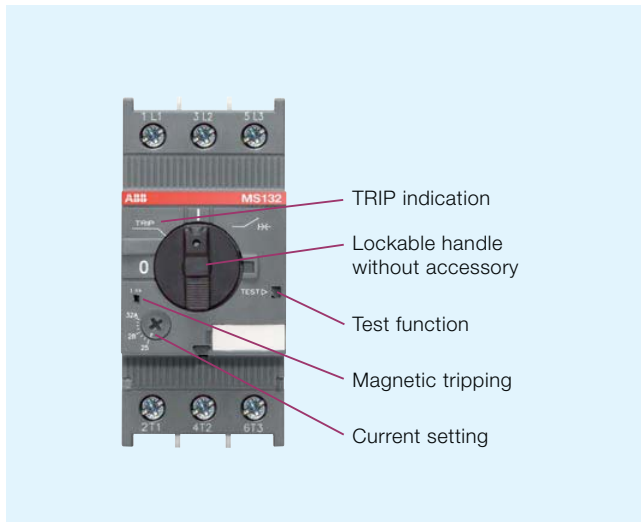
Harmonized design in 45 mm width

1

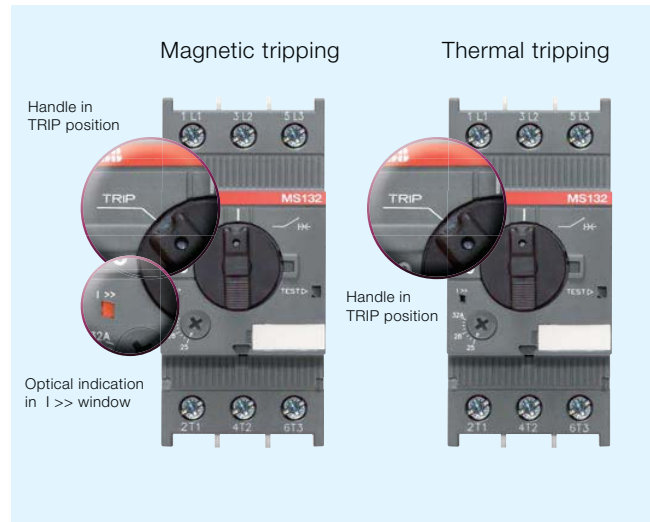


Types	MS116	MS132
Setting range	0.1 ... 16 A	0.1 ... 32 A
Switch position	ON / OFF	ON / OFF / TRIP
Magnetic trip indication	-	yes
Lockable handle without accessories	-	yes
Max. breaking capacity I_{cs}	up to 50 kA	up to 100 kA
Trip class	10A	10

ON/OFF switch functionality



Clear tripping identification



One range of accessories for MS116 and MS132

- Common auxiliary contacts, signaling contacts and auxiliary trip units
- Common busbar systems



AF09 ... AF38 3-pole contactors

Simple design with 2 frame sizes in 45 mm width

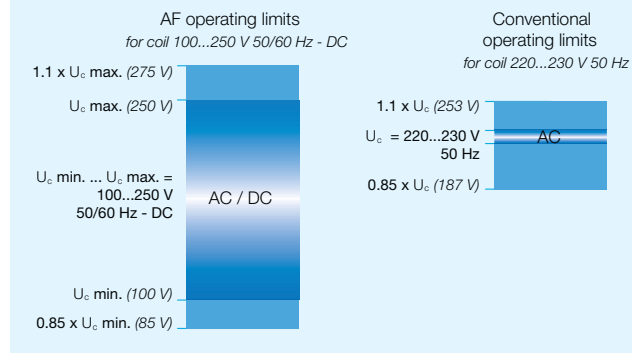


Types	AF09	AF12	AF16	AF26	AF30	AF38
Rated operational power 400 V AC-3	4 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW
Rated operational current AC-1 (40 °C)	25 A	28 A	30 A	45 A	50 A	50 A
UL 3-phase motor power 480 V	5 hp	7.5 hp	10 hp	15 hp	20 hp	20 hp

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A unique contactor for AC or DC control supply

- Manages large control voltage variations
- Includes an electronic coil interface with extended operating limits $0.85 \times U_c$ min. ... $1.1 \times U_c$ max.



Reduced panel energy consumption

- With low holding AC and DC coil consumption
- From 30% (AF coil) to 80% (AF.Z coil) reduction of AC pull-in consumption

Built-in surge protection

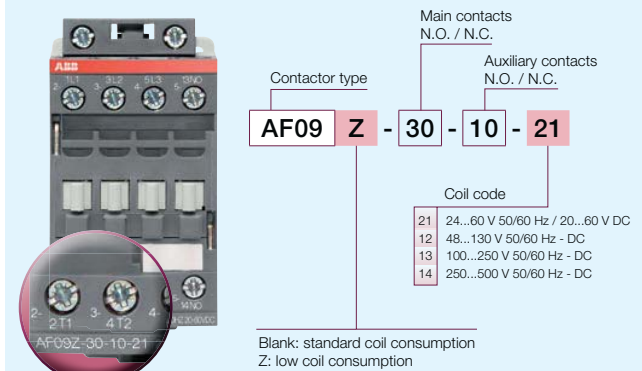
- No extra surge suppressor required

Improve your equipment reliability with AF.Z contactors

- Withstands control voltage short dips
- Withstands control voltage sags according to SEMI F47-0706 standards
- Additional AF.Z coils available for control voltages between 12...20 V DC and 48...250 V 50/60 Hz - DC

Only four coils for easier selection

Control voltages covering 24...500 V 50/60 Hz and 20...500 V DC



Direct control by PLC-output 500 mA, 24 V DC

No use of interface relay



Switching of auxiliary and control circuits

1



Optimize your auxiliary contact block configuration

- AF09...AF16 3-pole contactors equipped with a built-in auxiliary contact N.O. or N.C.
- Up to 6 additional auxiliary contacts:
 - front-mounted 1 or 4-pole CA4 blocks
 - side-mounted 2-pole CAL4 blocks
- Reduced panel dimension using up to 2 side-mounted 2-pole CAL4 blocks

Make your control circuit safe

- **Mirror contact** according to IEC 60947-4-1 Annex F 2.1
- **Mechanically linked contacts** according to IEC 60947-5-1 Annex L 3.0

Free choice of your coil terminal access

Top-mounted coil terminal block

Coil terminal block transferable to bottom position

Additional LDC4 coil terminal block mounted in bottom position

Front-mounted 2-pole CAT4 auxiliary contact block for front coil connection

Protect your equipment against accidental contact

Sealable and transparent protective covers on contactors (BX4) and overload relays

Non-removable protective covers (BX4-CA) for auxiliary contact blocks

Complete choice of contactor relays

- Same advantages and accessories as AF contactors
- Only four coils for easier selection

Contactor relay type: **NF Z 22 E - 21**

Auxiliary contacts N.O. / N.C.

Coil code

21	24...60 V 50/60 Hz / 20...60 V DC
12	48...130 V 50/60 Hz - DC
13	100...250 V 50/60 Hz - DC
14	250...500 V 50/60 Hz - DC

Blank: standard coil consumption
Z: low coil consumption

PSR softstarters

Compact design with 3 frame sizes



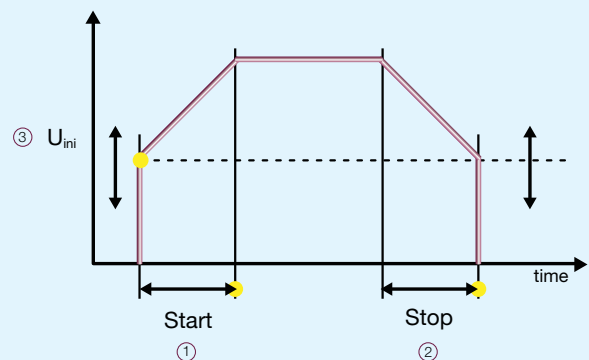
Types	PSR3 ... PSR16 PSE18	PSR-PSE25, PSR-PSE30	PSR-PSE37
Rated operational power 400 V AC-53a	1.5 ... 7.5 kW	11 ... 15 kW	18.5 kW
UL 3-phase motor power - 480 V	2 ... 10 hp	15 ... 20 hp	25 hp

1

- Built-in by-pass contacts in main circuit
- Wide main voltage range: from 208 to 600 V
 - fewer variants
 - very robust and insensitive to voltage variations
- Wide supply voltage range: 100 ... 240 V AC or 24 V DC



- ① Ramp time START = 1 ... 20 sec
- ② Ramp time STOP = 0 ... 20 sec
- ③ Initial voltage U_{ini} = 40 ... 70 % (also set "end voltage")



Easy to install and set up

- 35 mm rail or screw mounting
- All settings visible and adjustable on front face
- Run signal relay for all sizes
- Output signal for TOR (Top Of Ramp) for PSR25...PSR37
- 10 starts per hour standard, increased to 20 starts or more with addition of auxiliary cooling fan
- Remote control connection using Field Bus Plug as accessory




Compact starter solution in 45 mm width with manual motor starter up to 15 kW - 400 V



3-pole block contactors

for all industrial applications and motor starting

1

IEC	AC-3 Rated Power	$\theta ? 55^{\circ}\text{C}, 400\text{ V}$	kW
UL/CSA	3-phase Motor Power	480 V	hp
AC Control Supply			Type
DC Control Supply			Type
AC / DC Control Supply			Type
IEC	AC-3 Rated Current	$\theta ? 55^{\circ}\text{C}, 400\text{ V}$	A
	AC-1 Rated Current	$\theta ? 40^{\circ}\text{C}, 690\text{ V}$	A
UL/CSA	General Use Rating	600 V	A
NEMA	NEMA Size		

* $\theta ? 60^{\circ}\text{C}$ for AF09, AF38 contactors

Main Accessories

Auxiliary Contact Blocks	Front mounting
	Side mounting
Timers	Pneumatic (Front mounting)
	Electronic
Interlocking Units (compact reversing contactors)	Mechanical
	With safety blocking
Connection Sets	For reversing contactors
	For reversing contactors
Surge Suppressors	Varistor (AC/DC)
	RC Type (AC)
AF contactors have built-in surge protection	
	Transil diode (DC)

Standard



4	5.5	7.5	11	15	18.5	18.5	22	30	37
5	7.5	10	15	20	20	30	40	60	60
AF09	AF12	AF16	AF26	AF30	AF38	A40	A50	A63	A75
AF09	AF12	AF16	AF26	AF30	AF38	AL40	AE50	AE63	AE75
AF09	AF12	AF16	AF26	AF30	AF38	—	AF50	AF63	AF75
9	12	18	26	32	38	37	50	65	75
25	28	30	45	50	50	60	100	115	125
25	28	30	45	50	50	60	80	90	105
00	0	—	1	—	—	1P	2	—	3

CA4-10 (1 x N.O.), CA4-01 (1 x N.C.)	CA5-10 (1 x N.O.), CA5-01 (1 x N.C.)
CAL4-11 (1 x N.O. + 1 x N.C.)	CAL5-11 (1 x N.O. + 1 x N.C.)
	TP40DA, TP180DA Direct timing
	TP40IA, TP180IA Inverse timing
VM4	
VEM4	VE5-1
BER16-4	BER40
	BER75-30
	RV5 (24...440 V)
	RV5 (24...440 V)
	RC5-1 (24...440 V)
	RC5-2 (24...440 V)
	RT5 (24...264 V)
	RT5 (24...264 V)

Overload Relays

Thermal Relays	Class 10 (10A or 20 for TA42DU to TA80DU)
Electronic Relays	Class 10E, 20E, 30E
Accessories for Thermal Overload Relays	Remote tripping coil
	Remote reset coil
	Wall/separate mounting kit

TF42 (0.10...38 A)	TA42DU (18...42 A)	TA75DU (18...80 A)
EF19 (0.10...18.9 A)	EF19 (0.10...18.9 A)	EF45 (0...45 A)
	E45DU (0...45 A)	E80DU (27...80 A)
		DB80, DB45E, DB80E

Manual Motor Starters

Manual Motor Starters	Thermal / magnetic protection	Class 10
		Class 20
	Magnetic only types	
Accessories	For contactor mounting	
	Aux. trip units, aux. contacts, busbars	

MS116 for class 10A (0.10...16 A) I _{cs} up to 50 kA	MS450 (40...50 A) I _{cs} up to 50 kA	MS495 (28...100 A) I _{cs} up to 50 kA
MS132 (0.10...32 A) I _{cs} up to 100 kA	MS497 (11...100 A) I _{cs} up to 100 kA	MS451 (11...50 A) I _{cs} up to 50 kA
	MS451 (11...50 A) I _{cs} up to 50 kA	MS496 (28...100 A) I _{cs} up to 100 kA
	MO450 (16...50 A) I _{cs} up to 50 kA	MO495 (40...100 A) I _{cs} up to 50 kA
	MO496 (16...100 A) I _{cs} up to 100 kA	
BEA16-4	BEA38-4	BEA40/BEA450
HKF1, HK1, UA1, AA1, PS1, S1, SK1		BEA50/BEA450, BEA75/BEA495
CK1 (MS132 only)		HK4, HKS4, UA4, AA4, PS4, S4, SK4



Full range of product and technical information place this part number in a search engine and download

1SBC100155C0201



45	55	75	90	110	140	160	200	250	315	400	—	475	560	—
60	75	100	125	150	200	250	350	400	500	600	—	800	900	—
A95	A110	A145	A185	A210	A260	A300	AF400	AF460	AF580	AF750	AF1250	AF1350	AF1650	AF2050
AE95	AE110	AF145	AF185	AF210	AF260	AF300	AF400	AF460	AF580	AF750	AF1250	AF1350	AF1650	AF2050
AF95	AF110	AF145	AF185	AF210	AF260	AF300	AF400	AF460	AF580	AF750	AF1250	AF1350	AF1650	AF2050
96	110	145	185	210	260	305	400	460	580	750	—	860	1050	—
145	160	250	275	350	400	500	600	700	800	1050	1260	1350	1650	2050
125	140	230	250	300	350	400	550	650	750	900	1210	1350	1650	2100
—	—	4	—	—	5	—	—	6	—	7	—	—	8	—

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CAL18-11 (1 x NO. + 1 x NC)														
		VM300H / VM300V		VM750H / VM750V									VM1650H	
VE5-2														
BEM110-30	BEM185-30	BEM300-30	BEM460-30	BEM750-30										
RV5 (24...440 V)														
RC5-2 (24...440 V)														
RT5 (24...284 V)														

TA80DU (29...80 A)	TA200DU (65...200 A)	TA450DU/SU (130...310 A) class 30 for SU				
TA110DU (65...110 A)	E200DU (60...200 A)	E320DU (100...320 A)	E500DU (150...500 A)	E800DU (250...800 A)	E1250DU (375...1250 A)	
E140DU (50...140 A)		DS25-A				
		DR25-A				
		DT450/A				
DB80, DB200, D140E	DB200					

Circuit Breakers

Tmax Circuit Breaker and accessories



Full range of product and technical information place this part number in a search engine and download

1SBC100155C0201

AF09 ... AF16 3 pole contactors

AC/DC operated

1



AF09 ... AF16 Contactors

AC-3 400V kW	AC-3 400V A	AC-1 40°C A	Aux NO	Aux NC	Description	Product Hierarchy 1700009	
						Order Code	Price
4	9	25	1	-	AF09-30-10-11 24-60V50/60HZ-DC	1SBL137001R1110	21.17
					AF09-30-10-12 48-130V50/60HZ-DC	1SBL137001R1210	21.17
					AF09-30-10-13 100-250V50/60HZ-DC	1SBL137001R1310	21.17
					AF09-30-10-14 250-500V50/60HZ-DC	1SBL137001R1410	21.17
					AF09Z-30-10-20 12-20VDC	1SBL136001R2010	42.12
					AF09Z-30-10-21 24-60V50/60HZ 20-60VDC	1SBL136001R2110	42.12
			-	1	AF09-30-01-11 24-60V50/60HZ-DC	1SBL137001R1101	21.17
					AF09-30-01-12 48-130V50/60HZ-DC	1SBL137001R1201	21.17
					AF09-30-01-13 100-250V50/60HZ-DC	1SBL137001R1301	21.17
					AF09-30-01-14 250-500V50/60HZ-DC	1SBL137001R1401	21.17
					AF09Z-30-01-20 12-20VDC	1SBL136001R2001	42.12
					AF09Z-30-01-21 24-60V50/60HZ 20-60VDC	1SBL136001R2101	42.12
5.5	12	28	1	-	AF12-30-10-11 24-60V50/60HZ 20-60VDC	1SBL157001R1110	25.53
					AF12-30-10-12 48-130V50/60HZ-DC	1SBL157001R1210	25.53
					AF12-30-10-13 100-250V50/60HZ-DC	1SBL157001R1310	25.53
					AF12-30-10-14 250-500V50/60HZ-DC	1SBL157001R1410	25.53
					AF12Z-30-10-20 12-20VDC	1SBL156001R2010	44.49
					AF12Z-30-10-21 24-60V50/60HZ 20-60VDC	1SBL156001R2110	44.49
			-	1	AF12-30-01-11 24-60V50/60HZ 20-60VDC	1SBL157001R1101	25.53
					AF12-30-01-12 48-130V50/60HZ-DC	1SBL157001R1201	25.53
					AF12-30-01-13 100-250V50/60HZ-DC	1SBL157001R1301	25.53
					AF12-30-01-14 250-500V50/60HZ-DC	1SBL157001R1401	25.53
					AF12Z-30-01-20 12-20VDC	1SBL156001R2001	44.49
					AF12Z-30-01-21 24-60V50/60HZ 20-60VDC	1SBL156001R2101	44.49
7.5	18	30	1	-	AF16-30-10-11 24-60V50/60HZ 20-60VDC	1SBL177001R1110	33.73
					AF16-30-10-12 48-130V50/60HZ-DC	1SBL177001R1210	33.73
					AF16-30-10-13 100-250V50/60HZ-DC	1SBL177001R1310	33.73
					AF16-30-10-14 250-500V50/60HZ-DC	1SBL177001R1410	33.73
					AF16Z-30-10-20 12-20VDC	1SBL176001R2010	57.99
					AF16Z-30-10-21 24-60V50/60HZ 20-60VDC	1SBL176001R2110	57.99
			-	1	AF16-30-01-11 24-60V50/60HZ 20-60VDC	1SBL177001R1101	33.73
					AF16-30-01-12 48-130V50/60HZ-DC	1SBL177001R1201	33.73
					AF16-30-01-13 100-250V50/60HZ-DC	1SBL177001R1301	33.73
					AF16-30-01-14 250-500V50/60HZ-DC	1SBL177001R1401	33.73
					AF16Z-30-01-20 12-20VDC	1SBL176001R2001	57.99
					AF16Z-30-01-21 24-60V50/60HZ 20-60VDC	1SBL176001R2101	57.99



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1SBC100155C0201

AF26 ... AF210 3 pole contactors

AC/DC operated

AF26 ... AF210 Contactors



Full range of product and technical information place this part number in a search engine and download

1SBC100155C0201

AC-3 400V kW	AC-3 400V A	AC-1 40°C A	Aux NO	Aux NC	Description	Product Hierarchy 1700009	
						Order Code	Price
11	26	45	-	-	AF26-30-00-11 24-60V50/60HZ 20-60VDC	1SBL237001R1100	43.78
					AF26-30-00-12 48-130V50/60HZ-DC	1SBL237001R1200	43.78
					AF26-30-00-13 100-250V50/60HZ-DC	1SBL237001R1300	43.78
					AF26-30-00-14 250-500V50/60HZ-DC	1SBL237001R1400	43.78
					AF26Z-30-00-20 12-20VDC	1SBL236001R2000	67.08
					AF26Z-30-00-21 24-60V50/60HZ 20-60VDC	1SBL236001R2100	67.08
15	32	50	-	-	AF30-30-00-11 24-60V50/60HZ 20-60VDC	1SBL277001R1100	67.49
					AF30-30-00-12 48-130V50/60HZ-DC	1SBL277001R1200	67.49
					AF30-30-00-13 100-250V50/60HZ-DC	1SBL277001R1300	67.49
					AF30-30-00-14 250-500V50/60HZ-DC	1SBL277001R1400	67.49
					AF30Z-30-00-20 12-20VDC	1SBL276001R2000	88.10
					AF30Z-30-00-21 24-60V50/60HZ 20-60VDC	1SBL276001R2100	88.10
18.5	35	60	-	-	AF38-30-00-11 24-60V50/60HZ 20-60VDC	1SBL297001R1100	83.90
					AF38-30-00-12 48-130V50/60HZ-DC	1SBL297001R1200	83.90
					AF38-30-00-13 100-250V50/60HZ-DC	1SBL297001R1300	83.90
					AF38-30-00-14 250-500V50/60HZ-DC	1SBL297001R1400	83.90
					AF38Z-30-00-20 12-20VDC	1SBL296001R2000	99.64
					AF38Z-30-00-21 24-60V50/60HZ 20-60VDC	1SBL296001R2100	99.64
22	50	100	1	1	AF50-30-11 48-130V AC/DC	1SBL357001R6911	157.71
					AF50-30-11 100-250V AC/DC	1SFL357001R7011	
30	65	115	1	1	AF63-30-11 48-130V AC/DC	1SBL377001R6911	195.47
					AF63-30-11 100-250V AC/DC	1SBL377001R7011	195.47
37	75	125	1	1	AF75-30-11 48-130V AC/DC	1SBL417001R6911	224.87
					AF75-30-11 100-250V AC/DC	1SBL417001R7011	224.87
45	96	145	1	1	AF95-30-11 48-130V AC/DC	1SFL437001R6911	269.81
					AF95-30-11 100-250V AC/DC	1SFL437001R7011	269.81
55	110	160	1	1	AF110-30-11 48-130V AC/DC	1SFL457001R6911	302.97
					AF110-30-11 100-250V AC/DC	1SFL457001R7011	302.97
75	145	250	1	1	AF145-30-11 48-130V AC/DC	1SFL477001R6911	357.02
					AF145-30-11 100-250V AC/DC	1SFL477001R7011	357.02
90	185	275	1	1	AF185-30-11 48-130V AC/DC	1SFL497001R6911	437.49
					AF185-30-11 100-250V AC/DC	1SFL497001R7011	437.49
110	210	350	1	1	AF210-30-11 48-130V AC/DC	1SFL517001R6911	485.33
					AF210-30-11 100-250V AC/DC	1SFL517001R7011	485.33

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AF260 ... AF1650 3 pole contactors

AC/DC operated

1



AF260 ... A1650 Contactors

AC-3 400V kW	AC-3 400V A	AC-1 40°C A	Aux NO	Aux NC	Description	Product Hierarchy 1700001	
						Order Code	Price
140	260	400	1		AF260-30-11 48-130V AC/DC	1SFL537001R6911	690.58
					AF260-30-11 100-250V AC/DC	1SFL537001R7011	690.58
160	305	500	1	1	AF300-30-11 48-130V AC/DC	1SFL557001R6911	860.11
					AF300-30-11 100-250V AC/DC	1SFL557001R7011	860.11
200	400	600	1	1	AF400-30-11 48-130v AC/DC	1SFL577001R6911	958.07
					AF400-30-11 100-250V AC/DC	1SFL577001R7011	958.07
250	460	700	1	1	AF460-30-11 48-130v AC/DC	1SFL597001R6911	1135.54
					AF460-30-11 100-250V AC/DC	1SFL597001R7011	1135.54
315	580	800	1	1	AF580-30-11 48-130v AC/DC	1SFL617001R6911	1686.32
					AF580-30-11 100-250V AC/DC	1SFL617001R7011	1686.32
400	750	1050	1	1	AF750-30-11 48-130v AC/DC	1SFL637001R6911	2630.39
					AF750-30-11 100-250V AC/DC	1SFL637001R7011	2630.39
475	860	1350	1	1	AF1350-30-11 100-250V AC/DC	1SFL657001R7011	3041.17
560	1050	1650	1	1	AF1650-30-11 100-250V AC/DC	1SFL677001R7011	4791.63



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A50 ... A95 3 pole contactors

AC operated



A50 ... A95 Contactors

IAC-3 400V kW	AC-3 400V A	AC-1 40°C A	Aux NO	Aux NC	Description	Product Hierarchy 1700003	
						Order Code	Price
22	50	100	1	1	A50-30-11 110V 50/60Hz	1SBL351001R8411	111.21
					A50-30-11 220-230V 50Hz	1SBL351001R8011	111.21
					A50-30-11 230-240v 50Hz	1SBL351001R8811	111.21
					A50-30-11 24V 50/60Hz	1SBL351001R8111	111.21
					A50-30-11 400-415V 50Hz	1SBL351001R8611	111.21
30	65	115	1	1	A63-30-11 48V 50/60Hz	1SBL371001R8311	150.09
					A63-30-11 110V 50/60Hz	1SBL371001R8411	150.09
					A63-30-11 220-230V 50Hz	1SBL371001R8011	150.09
					A63-30-11 230-240v 50Hz	1SBL371001R8811	150.09
					A63-30-11 24V 50/60Hz	1SBL371001R8111	150.09
A63-30-11 400-415V 50Hz	1SBL371001R8611	150.09					
37	75	125	1	1	A75-30-11 110V 50/60Hz	1SBL411001R8411	176.03
					A75-30-11 220-230V 50Hz	1SBL411001R8011	176.03
					A75-30-11 230-240v 50Hz	1SBL411001R8811	176.03
					A75-30-11 24V 50/60Hz	1SBL411001R8111	176.03
					A75-30-11 400-415V 50Hz	1SBL411001R8611	176.03
45	96	145	1	1	Product Hierarchy 1700001		
					A95-30-11 48V 50Hz	1SFL431001R8311	189.00
					A95-30-11 110V 50Hz	1SFL431001R8411	189.00
					A95-30-11 220-230V 50Hz	1SFL431001R8011	189.00
					A95-30-11 230-240V 50Hz	1SFL431001R8811	189.00
					A95-30-11 24V 50Hz	1SFL431001R8111	189.00
A95-30-11 400-415V 50Hz	1SFL431001R8611	189.00					



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1SBC100122C0202

A110 ... A300 3 pole contactors

AC operated

1



A110 ... A300 Contactors

AC-3 400V kW	AC-3 400V A	AC-1 40°C A	Aux NO	Aux NC	Description	Product Hierarchy 1700001	
						Order Code	Price
55	110	160	1	1	A110-30-11 24V 50/60H	1SFL451001R8111	246.07
					A110-30-11 110V 50/60Hz	1SFL451001R8411	246.07
					A110-30-11 220-230V 50Hz	1SFL451001R8011	246.07
					A110-30-11 230-240V 50Hz	1SFL451001R8811	246.07
					A110-30-11 400-415V 50Hz	1SFL451001R8611	246.07
75	145	250	1	1	A145-30-11 24V 50Hz	1SFL471001R8111	300.12
					A145-30-11 48V 50Hz	1SFL471001R8311	300.12
					A145-30-11 110V 50Hz	1SFL471001R8411	300.12
					A145-30-11 220-230V 50Hz	1SFL471001R8011	300.12
					A145-30-11 230-240V 50Hz	1SFL471001R8811	300.12
A145-30-11 400-415V 50Hz	1SFL471001R8611	300.12					
90	185	275	1	1	A185-30-11 110V 50Hz	1SFL491001R8411	405.84
					A185-30-11 220-230V 50Hz	1SFL491001R8011	405.84
					A185-30-11 230-240V 50Hz	1SFL491001R8811	405.84
					A185-30-11 24V 50Hz	1SFL491001R8111	405.84
					A185-30-11 400-415V 50Hz	1SFL491001R8611	405.84
110	210	350	1	1	A210-30-11 24V 50Hz	1SFL511001R8111	453.68
					A210-30-11 48V 50Hz	1SFL511001R8311	453.68
					A210-30-11 110V 50Hz	1SFL511001R8411	453.68
					A210-30-11 220-230V 50Hz	1SFL511001R8011	453.68
					A210-30-11 230-240V 50Hz	1SFL511001R8811	453.68
					A210-30-11 400-415V 50Hz	1SFL511001R8611	453.68
140	260	400	1	1	A260-30-11 24V 50Hz	1SFL531001R8111	658.57
					A260-30-11 110V 50Hz	1SFL531001R8411	658.57
					A260-30-11 220-230V 50Hz	1SFL531001R8011	658.57
					A260-30-11 230-240V 50Hz	1SFL531001R8811	658.57
					A260-30-11 400-415V 50Hz	1SFL511001R8611	453.68
160	305	500	1	1	A300-30-11 24V 50Hz	1SFL551001R8111	800.24
					A300-30-11 110V 50Hz	1SFL551001R8411	800.24
					A300-30-11 220-230V 50Hz	1SFL551001R8011	800.24
					A300-30-11 230-240V 50Hz	1SFL551001R8811	800.24
					A300-30-11 400-415 50Hz	1SFL551001R8611	800.24



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1SBC100122C0202

AE50 ... AE63 - AF50 ... AF750 3 pole contactors

DC operated



AE50 ... AE110 Contactors

AC-3 400V kW	AC-3 400V A	AC-1 40°C A	Aux NO	Aux NC	Description	Product Hierarchy 1700003	
						Order Code	Price
22	50	100	1	1	AE50-30-11 24V DC	1SBL359001R8111	144.14
30	65	115			AE63-30-11 24V DC	1SBL379001R8111	186.01
37	75	125			AE75-30-11 24V DC	1SBL419001R8111	220.58
						Product Hierarchy 1700001	
45	96	145	1	1	AE95-30-11 24V DC	1SFL439001R8111	274.68
55	110	160			AE110-30-11 24V DC	1SFL459001R8111	302.97

AF50 ... AF750 Contactors

AC-3 400V kW	AC-3 400V A	AC-1 40°C A	Aux NO	Aux NC	Description	Product Hierarchy 1700003	
						Order Code	Price
22	50	100	1	1	AF50-30-11 20-60V DC	1SBL357001R7211	157.71
30	65	115			AF63-30-11 20-60V DC	1SBL377001R7211	195.47
37	75	125			AF75-30-11 20-60V DC	1SBL417001R7211	224.87
						Product Hierarchy 1700001	
45	96	145	1	1	AF95-30-11 20-60V DC	1SFL437001R7211	269.81
55	110	160			AF110-30-11 20-60V DC	1SFL457001R7211	302.97
75	145	250			AF145-30-11 20-60V DC	1SFL477001R7211	357.02
90	185	275			AF185-30-11 20-60V DC	1SFL497001R7211	437.49
110	210	350			AF210-30-11 20-60V DC	1SFL517001R7211	485.33
140	260	400			AF260-30-11 20-60V DC	1SFL537001R7211	690.58
160	305	500			AF300-30-11 20-60V DC	1SFL557001R7211	860.11
200	400	600			AF400-30-11 20-60V DC	1SFL577001R6811	958.07
250	460	700			AF460-30-11 20-60V DC	1SFL597001R6811	1135.54
315	580	800			AF580-30-11 20-60V DC	1SFL617001R6811	1686.32
400	750	1050			AF750-30-11 20-60V DC	1SFL637001R6811	2630.39



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AF09 ... AF38 4 pole contactors

AC/DC operated

1



AF09 ... AF38 Contactors

IEC AC1 A	Main Poles		Auxiliary		Description	Product Hierarchy 1700009						
	NO	NC	NO	NC		Order Code	Price					
25	2	2	-	-	AF09-22-00-11 24-60V50/60HZ 20-60VDC	1SBL137501R1100	22.13					
					AF09-22-00-12 48-130V50/60HZ-DC	1SBL137501R1200	22.13					
					AF09-22-00-13 100-250V50/60HZ-DC	1SBL137501R1300	22.13					
					AF09-22-00-14 250-500V50/60HZ-DC	1SBL137501R1400	22.13					
					AF09Z-22-00-21 24-60V50/60HZ 20-60VDC	1SBL136501R2100	50.14					
	4	0	-	-	AF09-40-00-11 24-60V50/60HZ 20-60VDC	1SBL137201R1100	22.13					
					AF09-40-00-12 48-130V50/60HZ-DC	1SBL137201R1200	22.13					
					AF09-40-00-13 100-250V50/60HZ-DC	1SBL137201R1300	22.13					
					AF09-40-00-14 250-500V50/60HZ-DC	1SBL137201R1400	22.13					
					AF09Z-40-00-20 12-20VDC	1SBL136201R2000	44.49					
				AF09Z-40-00-21 24-60V50/60HZ 20-60VDC	1SBL136201R2100	44.49						
30	2	2	-	-	AF16-22-00-11 24-60V50/60HZ 20-60VDC	1SBL177501R1100	39.72					
					AF16-22-00-12 48-130V50/60HZ-DC	1SBL177501R1200	39.72					
					AF16-22-00-13 100-250V50/60HZ-DC	1SBL177501R1300	39.72					
					AF16-22-00-14 250-500V50/60HZ-DC	1SBL177501R1400	39.72					
					AF16Z-22-00-21 24-60V50/60HZ 20-60VDC	1SBL176501R2100	61.55					
	4	0	-	-	AF16-40-00-11 24-60V50/60HZ 20-60VDC	1SBL177201R1100	35.62					
					AF16-40-00-12 48-130V50/60HZ-DC	1SBL177201R1200	35.62					
					AF16-40-00-13 100-250V50/60HZ-DC	1SBL177201R1300	35.62					
					AF16-40-00-14 250-500V50/60HZ-DC	1SBL177201R1400	35.62					
					AF16Z-40-00-20 12-20VDC	1SBL176201R2000	59.62					
					AF16Z-40-00-21 24-60V50/60HZ 20-60VDC	1SBL176201R2100	59.62					
					45	2	2	-	-	AF26-22-00-11 24-60V50/60HZ 20-60VDC	1SBL237501R1100	60.22
										AF26-22-00-13 100-250V50/60HZ-DC	1SBL237501R1300	60.22
4	0	-	-	AF26-40-00-11 24-60V50/60HZ 20-60VDC		1SBL237201R1100	53.45					
				AF26-40-00-12 48-130V50/60HZ-DC		1SBL237201R1200	53.45					
				AF26-40-00-13 100-250V50/60HZ-DC		1SBL237201R1300	53.45					
				AF26-40-00-14 250-500V50/60HZ-DC		1SBL237201R1400	53.45					
				AF26Z-40-00-21 24-60V50/60HZ 20-60VDC	1SBL236201R2100	72.59						
55	2	2	-	-	AF38-22-00-11 24-60V50/60HZ 20-60VDC	1SBL297501R1100	105.06					
					AF38-22-00-13 100-250V50/60HZ-DC	1SBL297501R1300	105.06					
	4	0	-	-	AF38-40-00-11 24-60V50/60HZ 20-60VDC	1SBL297201R1100	84.74					
					AF38-40-00-13 100-250V50/60HZ-DC	1SBL297201R1300	84.74					
					AF38Z-40-00-21 24-60V50/60HZ 20-60VDC	1SBL296201R2100	115.91					



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1SBC100155C0201

A45 ... A75 4 pole contactors

AC operated



A45 ... A75 Contactors

IEC AC1 A	Main Poles		Auxiliary		Description	Product Hierarchy 1700003	
	NO	NC	NO	NC		Order Code	Price
70	2	2	-	-	A45-22-00 24v 50Hz	1SBL331501R8100	131.72
					A45-22-00 110v 50Hz	1SBL331501R8400	131.72
					A45-22-00 220-230v 50Hz	1SBL331501R8000	131.72
					A45-22-00 230-240v 50Hz	1SBL331501R8800	131.72
					A45-22-00 400-415v 50Hz	1SBL331501R8600	131.72
	4	0	-	-	A45-40-00 24v 50Hz	1SBL331201R8100	131.72
					A45-40-00 110v 50Hz	1SBL331201R8400	131.72
					A45-40-00 220-230V 50Hz	1SBL331201R8000	131.72
					A45-40-00 230-240v 50Hz	1SBL331201R8800	131.72
					A45-40-00 400-415v 50Hz	1SBL331201R8600	131.72
100	4	0	-	-	A50-40-00 24v 50Hz	1SBL351201R8100	163.88
					A50-40-00 110V 50/60Hz	1SBL351201R8400	163.88
					A50-40-00 220-230V 50Hz	1SBL351201R8000	163.88
					A50-40-00 230-240v 50Hz	1SBL351201R8800	163.88
					A50-40-00 400-415v 50Hz	1SBL351201R8600	163.88
125	2	2	-	-	A75-22-00 24v 50Hz	1SBL411501R8100	202.69
					A75-22-00 110v 50Hz	1SBL411501R8400	202.69
					A75-22-00 220-230v 50Hz	1SBL411501R8000	202.69
					A75-22-00 230-240v 50Hz	1SBL411501R8800	202.69
					A75-22-00 400-415v 50Hz	1SBL411501R8600	202.69
	4	0	-	-	A75-40-00 24V 50Hz Contactor	1SBL411201R8100	236.48
					A75-40-00 110V 50/60Hz	1SBL411201R8400	236.48
					A75-40-00 220-230V 50Hz	1SBL411201R8000	236.48
					A75-40-00 230-240v 50Hz	1SBL411201R8800	236.48
					A75-40-00 400-415v 50Hz	1SBL411201R8600	236.48



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EK110 ... EK1000 4 pole contactors

AC operated

1



EK 175-40-11

1SBSC573412F0301



EK 370-40-11

1SBSC573432F0301



EK 1000-40-11

1SFT180099-089C2

EK110 ... EK1000 Contactors

AC-1 40°C A	Aux NO	Aux NC	Description	Product Hierarchy 1700002	
				Order Code	Price
200	1	1	EK110-40-11 230-240V 50Hz	SK824440-AM	334.79
250	1	1	EK150-40-11 230-240V 50Hz	SK824441-AM	408.48
300	1	1	EK175-40-11 230-240V 50Hz	SK825440-AM	572.78
350	1	1	EK210-40-11 230-240V 50Hz	SK825441-AM	709.18
550	1	1	EK370-40-11 230-240V 50Hz	SK827040-AM	1234.04
800	1	1	EK550-40-11 230-240V 50Hz	SK827041-AM	1701.69
1000	1	1	EK1000-40-11 230-240V 50Hz	SK827044-AM	2057.85

Aux Contacts

CAL16-11A Side Mount Aux Block	SK829002-A	14.60
CAL16-11B Side Mount Aux Block	SK829002-B	14.60
CAL16-11C Side Mount Aux Block	SK829002-C	14.60
CAL16-11D Side Mount Aux Block	SK829002-D	14.60

Mechanical Interlocks

VH145	SK829071-A	33.30
VH300	SK829071-B	35.05
VH800	SK829070-F	134.76

Terminal Shrouds

LT150-EK EK110 / EK150	SK178001-HB	19.44
LT210-EK EK175 / EK210	SK178001-KB	19.82
LT550-EK EK370 / EK550	SK178001-LB	39.20

Connection Sets

BSS100 Connection Sets	SK829090-B	45.07
BSS145 Connection Sets	SK829090-F	46.28
BSS210 Connection Sets	SK829090-G	75.61
BSS550 Connection Sets	SK829090-E	134.57
BSS1000 Connection Sets	SK829090-H	203.28

Suppressors

RC-EH300/415 110-415V AC Suppressor	SK829007-B	25.53
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Other voltages available please consult us.



Full range of product and technical information place this part number in a search engine and download

1SBC100122C0202

AE45 ... AE75 4 pole contactors

DC operated



AE45 ... AE75 Contactors

IEC AC1 A	Main Poles		Auxiliary		Description	Product Hierarchy 1700003	
	NO	NC	NO	NC		Order Code	Price
70	2	2	-	-	AE45-22-00 24V DC	1SBL339501R8100	131.72
	4	0			AE45-40-00 24V DC	1SBL339201R8100	166.29
100	4	0			AE50-40-00 24V DC	1SBL359201R8100	276.50
125	2	2			AE75-22-00 24V DC	1SBL419501R8100	297.07
	4	0			AE75-40-00 24V DC	1SBL339201R8100	166.29



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1SBC100122C0202

NF contactor relays

AC/DC operated

1



NF Contactor Relays

NO	NC	IEC AC-15 Ratings	Part No	Product Hierarchy 1700009	
				Order Code	Price
2	2	27-127v 50/60Hz 6A 220-240v 50/60Hz 4A 400- 440v 50/60Hz 3A 500v 50/60Hz 2A 690v 50/60Hz 2A	NF22E-11 24-60V50/60HZ 20-60VDC	1SBH137001R1122	21.40
			NF22E-12 48-130V50/60HZ-DC	1SBH137001R1222	21.40
			NF22E-13 100-250V50/60HZ-DC	1SBH137001R1322	21.40
			NF22E-14 250-500V50/60HZ-DC	1SBH137001R1422	21.40
			NFZ22E-21 24-60V50/60HZ 20-60VDC	1SBH136001R2122	43.93
3	1		NF31E-12 48-130V50/60HZ-DC	1SBH137001R1231	21.40
			NF31E-13 100-250V50/60HZ-DC	1SBH137001R1331	21.40
			NF31E-14 250-500V50/60HZ-DC	1SBH137001R1431	21.40
			NFZ31E-21 24-60V50/60HZ 20-60VDC	1SBH136001R2131	43.93
			NF40E-12 48-130V50/60HZ-DC	1SBH137001R1240	21.40
4	-	NF40E-13 100-250V50/60HZ-DC	1SBH137001R1340	21.40	
		NFZ40E-21 24-60V50/60HZ 20-60VDC	1SBH136001R2140	43.93	
6	2	NF62E-13 100-250V50/60HZ-DC	1SBH137001R1362	38.54	



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1SBC100155C0201

AF09 ... AF38 main accessories for 3 & 4 pole contactors and relays



Auxiliary contacts

Front mounted instantaneous auxiliary contacts

For Contactor	NO	NC	Part No.	Product Hierarchy 1700009	
				Order Code	Price
AF09 ... AF38	1	0	CA4-10	1SBN010110R1010	3.08
	1	0	CA4-10-T	1SBN010110T1010	3.08
	0	1	CA4-01	1SBN010110R1001	3.08
	0	1	CA4-01-T	1SBN010110T1001	3.08
AF09 ... AF16-30-10	2	2	CA4-22M	1SBN010140R1122	11.01
	3	1	CA4-31M	1SBN010140R1131	11.01
	1	3	CA4-13M	1SBN010140R1113	11.01
	0	4	CA4-04M	1SBN010140R1104	11.01
AF26 ... AF38-30-00	2	2	CA4-22E	1SBN010140R1022	11.01
	3	1	CA4-31E	1SBN010140R1031	11.01
	4	0	CA4-40E	1SBN010140R1040	11.01
	0	4	CA4-04E	1SBN010140R1004	11.01
AF09 ... AF16-30-10	2	2	CA4-22U	1SBN010140R1322	11.01
	3	1	CA4-31U	1SBN010140R1331	11.01
	4	0	CA4-40U	1SBN010140R1340	11.01

Front mounted auxiliary contacts with NO leading and NC lagging

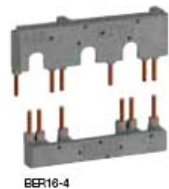
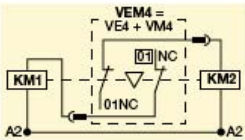
AF09 ... AF38	1	0	CC4-10	1SBN010111R1010	9.36
	0	1	CC4-01	1SBN010111R1001	9.36

Side mounted instantaneous auxiliary contacts

AF09 ... AF38	1	1	CAL4-11	1SBN010120R1011	6.99
	1	1	CAL4-11-T	1SBN010120T1011	6.99

Front mounted instantaneous auxiliary contacts with A1/A2 terminal blocks

AF09 ... AF16-30-10	1	1	CAT4-11E	1SBN010151R1011	6.64
AF26 ... AF38-30-00	1	1	CAT4-11M	1SBN010151R1111	6.64
AF09 ... AF16-30-10	1	1	CAT4-11U	1SBN010151R1311	6.64



Mechanical and electrical interlock sets

Mechanical and Electrical Interlock Unit	VEM4	1SBN030111R1000	12.34
Mechanical Interlock Unit	VM4	1SBN030105T1000	6.59

Connecting accessories for starting (3 pole contactors)

Connecting Link	BEA16-4	1SBN081306T1000	3.94
Connecting Link	BEA38-4	1SBN082306T2000	4.79
Connection kit for PSR24-30 and MS132	PSR30-MS132	1SFA896212R1001	13.21
Connection Set for Manual Motor	BEA26-4	1SBN082306T1000	4.49
Connection Set for Reversing Starter	BER16-4	1SBN081311R1000	8.11
Connection Set for Reversing Starter	BER38-4	1SBN082311R1000	11.19
Connection Set for Star-Delta Starter	BEY16-4	1SBN081313R2000	12.72
Connection Set for Star-Delta Starter	BEY38-4	1SBN082713R2000	17.45



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1SBC100155C0201

1

Thermal & electronic overload relays for AF09 ... AF38 3-pole contactors

1



Electronic Overload Relays

Setting [A]	Part No	Product Hierarchy 1700006	
		Order Code	Price
0.10...0.32 A	EF19-0.32	1SAX121001R1101	56.72
0.30...1.00 A	EF19-1.0	1SAX121001R1102	56.72
0.80...2.70 A	EF19-2.7	1SAX121001R1103	56.72
1.90...6.30 A	EF19-6.3	1SAX121001R1104	59.96
5.70...18.9 A	EF19-18.9	1SAX121001R1105	59.96
9.00...30.0 A	EF45-30	1SAX221001R1101	89.08
15.0...45.0 A	EF45-45	1SAX221001R1102	107.60



Thermal Overload Relays

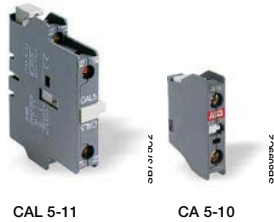
0.10...0.13 A	TF42-0.13	1SAZ721201R1005	27.87
0.13...0.17 A	TF42-0.17	1SAZ721201R1008	27.87
0.17...0.23 A	TF42-0.23	1SAZ721201R1009	27.87
0.23...0.31 A	TF42-0.31	1SAZ721201R1013	27.87
0.31...0.41 A	TF42-0.41	1SAZ721201R1014	27.87
0.41...0.55 A	TF42-0.55	1SAZ721201R1017	27.87
0.55...0.74 A	TF42-0.74	1SAZ721201R1021	27.87
0.74...1.00 A	TF42-1.0	1SAZ721201R1023	27.87
1.00...1.30 A	TF42-1.3	1SAZ721201R1025	27.87
1.30...1.70 A	TF42-1.7	1SAZ721201R1028	27.87
1.70...2.30 A	TF42-2.3	1SAZ721201R1031	27.87
2.30...3.10 A	TF42-3.1	1SAZ721201R1033	27.87
3.10...4.20 A	TF42-4.2	1SAZ721201R1035	27.87
4.20...5.70 A	TF42-5.7	1SAZ721201R1038	27.87
5.70...7.60 A	TF42-7.6	1SAZ721201R1040	27.87
7.60...10.0 A	TF42-10	1SAZ721201R1043	27.87
10.0...13.0 A	TF42-13	1SAZ721201R1045	29.05
13.0...16.0 A	TF42-16	1SAZ721201R1047	34.80
16.0...20.0 A	TF42-20	1SAZ721201R1049	36.00
20.0...24.0 A	TF42-24	1SAZ721201R1051	45.69
24.0...29.0 A	TF42-29	1SAZ721201R1052	48.34
29.0...35.0 A	TF42-35	1SAZ721201R1053	50.98
35.0...38.0 A	TF42-38	1SAZ721201R1055	50.98



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Main accessories for A45 ... AF1650 3 & 4 pole contactors



CAL 5-11

CA 5-10



TP 40 DA



TE5S-240



VE 5-1



Full range of product and technical information place this part number in a search engine and download
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Auxilliary Contacts [Add on Contacts A45 - A75](#)

Description	Product Hierarchy 1700003	
	Order Code	Price
CA5-04E Top Mount Aux Block	1SBN010040R1004	11.01
CA5-04N Top Mount Aux Block	1SBN010040R1204	11.01
CA5-10 Top Mount Aux Block	1SBN010010R1010	3.08
CA5-22E Aux. Contacts	1SBN010040R1022	11.01
CA5-22M Top Mount Aux Block	1SBN010040R1122	11.01
CA5-22N Top Mount Aux Block	1SBN010040R1222	11.01
CA5-31E Top Mount Aux Block	1SBN010040R1031	11.01
CA5-31M Top Mount Aux Block	1SBN010040R1131	11.01
CA5-40E Top Mount Aux Block	1SBN010040R1040	11.01
CA5-40N Top Mount Aux Block	1SBN010040R1240	11.01
CAL5-11B Side Mount Aux Block	1SBN010420R3311	6.99
CAL5-11 Side Mount Aux Block	1SBN010020R1011	6.99
CB5-10 Start Contact	1SBN010013R1010	11.67
BA5.50 pkt 50 markers for a range cont	1SBN110000R1000	23.52

[Add on Contacts A95 ... A110](#)

Description	Product Hierarchy 1700001	
	Order Code	Price
CAL18-11 Side Mount Aux Block	1SFN010720R1011	14.18
CAL18-11B Side Mount Aux Block	1SFN010720R3311	14.18

[Add on Timers A45 ... A75](#)

Description	Product Hierarchy 1700003	
	Order Code	Price
TP180DA Pneumatic Timer 10-180s On Delay	1SBN020300R1001	53.04
TP180IA Pneumatic Timer 10-180s OffDelay	1SBN020301R1001	53.04
TP40DA Pneumatic Timer 0.1-40s On Delay	1SBN020300R1000	44.34
TP40IA Pneumatic Timer 0.1-40s Off Delay	1SBN020301R1000	44.34

[Star Delta Timers](#)

TE5S-120 Star/Delta Timer 110/120V AC	1SBN020010R1002	41.03
TE5S-24 Star/Delta Timer 24V AC/DC	1SBN020010R1001	41.01
TE5S-240 Star/Delta Timer 220/240V AC	1SBN020010R1003	41.03
TE5S-440 Star/Delta Timer 380/440V AC	1SBN020010R1004	41.03

[Mechanical Interlocks A45 ... A110](#)

VE5-2	1SBN030210R1000	24.39
WB75A 24V latching block	FPTN372726R1001	55.79

[A110>](#)

Description	Product Hierarchy 1700001	
	Order Code	Price
VM300/460H	1SFN035100R1000	20.49
VM300H	1SFN034700R1000	11.71
VM750H	1SFN035700R1000	21.88

Main accessories for A45 ... AF1650 3 & 4 pole contactors

1



RV 5/50

Suppressors

Description	Product Hierarchy 1700003	
	Order Code	Price
RC5-2/133 50-133VAC	1SBN050200R1001	8.44
RC5-2/250 110-250VAC	1SBN050200R1002	8.44
RC5-2/50 24-50VAC	1SBN050200R1000	8.44
RT5/150 77-150V DC	1SBN050020R1003	18.38
RT5/32 12-32V DC	1SBN050020R1000	18.38
RV5/250 110-250V AC/DC	1SBN050010R1002	7.80
RV5/50 24-50V AC/DC	1SBN050010R1000	7.80
RV5/440 250-440V AC/DC	1SBN050010R1003	7.80
RA5-1 Interface Relay	1SBN060300R1000	41.49



LT...-AC

1SFT18000-019AC3

Terminal Shourds

	Product Hierarchy 1700001	
	Order Code	Price
LT185-AC	1SFN124701R1000	7.54
LT185-AL	1SFN124703R1000	10.55
LT185-AY	1SFN124704R1000	6.46
LT200/A	1SAZ401901R1001	29.10
LT200E E200DU	1SAX501904R0001	21.50
LT300-AC	1SFN125101R1000	15.07
LT300-AL	1SFN125103R1000	17.26
LT320E E320DU	1SAX601904R0001	23.89
LT460-AC	1SFN125701R1000	21.25
LT460-AL	1SFN125703R1000	56.72
LT500E E500DU	1SAX701904R0001	24.54
LT750-AC	1SFN126101R1000	19.14
LT750-AL	1SFN126103R1000	57.63

Terminal Kits

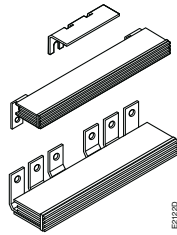
LW185 Terminal Enlargement	1SFN074707R1000	20.14
LW300 Terminal Enlargement	1SFN075107R1000	25.62
LD110 Terminal Extension (Pack 1)	1SFN074308R1000	11.39
LX300 Terminal Extension	1SFN075110R1000	41.98



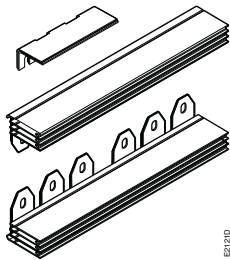
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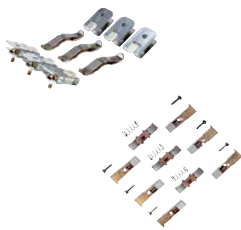
Main accessories for A45 ... AF1650 3 & 4 pole contactors



BED 185



BED 400



Connection Sets A50 - A75

Description	Product Hierarchy 1700003	
	Order Code	Price
BEY40-2 Star/Delta Main/Delta/Star Connection Set	1SBN082813R2000	19.28
BED50 Star/Delta Connection Set A30-A63	1SBN083503R1000	66.51
BED75 Star/Delta Connection Set A50-A75	1SBN084103R1000	68.53
BES75-40 Reversing Contactors A(E)45-75	1SBN083302R1000	29.86

Connection Sets A95>

Description	Product Hierarchy 1700001	
	Order Code	Price
BED95 Star/Delta Connection Set	1SFN084303R1000	66.91
BED110 Star/Delta Connection Set	1SFN084503R1000	71.02
BED145A Star/Delta Connection Set	1SFN084703R1000	91.17
BED210 Star/Delta Connection Set	1SFN085103R1000	105.83
LY110 Connecting Strip 3P	1SFN074303R1000	15.37
LY185 Connecting Strip 3P	1SFN074703R1000	17.26

Spare Coils Spare Coils A45 - A75

Description	Product Hierarchy 1700003	
	Order Code	Price
ZA75 110V 50HZ Coil	1SBN153510R8406	31.68
ZA75 230-240V 50HZ Coil	1SBN153510R8806	31.68
ZA75 24V 50/60HZ COIL	1SBN153510R8106	31.68
ZA75 400-415V 50HZ Coil	1SBN153510R8606	31.68

Spare Coils A110>

Description	Product Hierarchy 1700001	
	Order Code	Price
ZA110 110V 50/60Hz Coil	1SFN154310R8406	62.94
ZA110 400-415V 50Hz Coil	1SFN154310R8606	62.94
ZA185 110V 50/60Hz Coil	1SFN154710R8406	76.17

Spare Contact Sets A50 - A95

Description	Product Hierarchy 1700003	
	Order Code	Price
ZL50 Main Contact Set	1SBN163503R1000	78.20
ZL95 Main Contact Set	1SFN164303R1000	122.69

Spare Contact Sets A110>

Description	Product Hierarchy 1700001	
	Order Code	Price
ZL110 Main Contact Set	1SFN164503R1000	129.77
ZL145 Main Contact Set	1SFN164703R1000	193.97
ZL185 Main Contact Set	1SFN164903R1000	196.44
ZL210 Main Contact Set	1SFN165103R1000	234.52
ZL260 Main Contact Set	1SFN165303R1000	245.56
ZL300 Main Contact Set	1SFN165503R1000	322.07
ZL400 Main Contact Set	1SFN165703R1000	468.84

Spare Contact Sets EH300>

Description	Product Hierarchy 1700001	
	Order Code	Price
KZ300 Main Contact Set EH300	SK826200-A	545.93
KZ550 Main Contact Set EH550	SK827200-C	1059.65



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1SBC100122C0202



Thermal & electronic overload relays for A50 ... AF750 3-pole contactors

1



8B7507C2

TA 75 DU



1SFT9119-005C3

TA 200 DU



TA 450 DU



E 320 DU

Thermal O/L Relays, Class 10A

A50 - A75 AL50 - AF75

			Product Hierarchy 1700006	
For Contactors	Setting	Description	Order Code	Price
A50 ... A75 AL50 ... AF75	18 - 25A	TA75DU-25	1SAZ321201R1001	53.77
	22 - 32A	TA75DU-32	1SAZ321201R1002	53.77
	29 - 42A	TA75DU-42	1SAZ321201R1003	53.77
	36 - 52A	TA75DU-52	1SAZ321201R1004	63.54
	45 - 63A	TA75DU-63	1SAZ321201R1005	66.60
	60 - 80A	TA75DU-80	1SAZ321201R1006	79.27

A95 - A300 AF95 - AF110

			Product Hierarchy 1700007	
For Contactors	Setting	Description	Order Code	Price
A95 ... A110 AF95 ... AF110	29 - 42A	TA80DU-42	1SAZ331201R1003	60.31
	36 - 52A	TA80DU-52	1SAZ331201R1004	76.34
	45 - 63A	TA80DU-63	1SAZ331201R1005	80.04
	60 - 80A	TA80DU-80	1SAZ331201R1006	83.31
	65 - 90A	TA110DU-90	1SAZ411201R1001	119.97
	80 - 110A	TA110DU-110	1SAZ411201R1002	132.44
A145 ... A185	66 - 90A	TA200DU-90	1SAZ421201R1001	155.72
	80 - 110A	TA200DU-110	1SAZ421201R1002	155.72
	100 - 135A	TA200DU-135	1SAZ421201R1003	155.72
	110 - 150A	TA200DU-150	1SAZ421201R1004	155.72
	130 - 175A	TA200DU-175	1SAZ421201R1005	155.72
	150 - 200A	TA200DU-200	1SAZ421201R1006	155.72
A210 ... A300	130 - 185A	TA450DU-185	1SAZ511201R1001	188.15
	165 - 235A	TA450DU-235	1SAZ511201R1002	188.15
	220 - 310A	TA450DU-310	1SAZ511201R1003	222.12

A145 - A300 AF400 - AF750

A145 ... A185	60 - 200A	E200DU200	1SAX511001R1101	270.18
A210 ... A300	100 - 320A	E320DU320	1SAX521001R1101	314.53
AF400 ... AF460	150 - 500A	E500DU500	1SAX711001R1101	402.44
AF580 ... AF750	250 - 800A	E800DU800	1SAX811001R1101	561.92

Separate Mounting Kits

		Product Hierarchy 1700006	
For Overload Relays	Description	Order Code	Price
TA42, TA75, TA80 ...	DB80	1SAZ301110R0001	19.94
E140DU	DB140E	1SAX301110R1002	50.89

TA110 - TA450 E500

		Product Hierarchy 1700007	
For Overload Relays	Description	Order Code	Price
TA110, TA200 ...	DB200	1SAZ401110R0001	25.77
TA450DU/SU ...	DT450/A300	1SAZ501902R1001	63.98
E500DU	DT500/AF460L	1SAX701902R1001	60.90



Full range of product and technical information place this part number in a search engine and download

1SBC100122C0202

Mini contactors

3 - 4 Pole contactors and relays



B6-30-10



B6-30-10F



B6-30-10P



B7-30-10



B7-40-10



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1SBC100122C0202

AC3 380/415v		Aux Contacts		Description	Product Hierarchy 1700004	
kW	A	NO	NC		Order Code	Price

Contactors

3 pole contactors • Flat Pin Terminals

kW	A	NO	NC	Description	Order Code	Price
4	16	-	1	B6-30-01 230AC	GJL1211001R8010	15.52
				B6-30-01 110AC	GJL1211001R8014	15.52
				B6-30-01 24AC	GJL1211001R0011	15.52
				B6-30-01-F 220AC	GJL1211003R8010	15.52
		B6-30-01-F 110AC •	GJL1211003R8014	15.52		
		B6-30-01-F 24AC •	GJL1211003R0011	15.52		
		1	-	B6-30-10 110AC	GJL1211001R8104	15.52
				B6-30-10 230AC	GJL1211001R8100	15.52
B6-30-10 24AC	GJL1211001R0101			15.52		
B6-30-10 400AC	GJL1211001R8105			15.52		

4 pole contactors • Flat Pin Terminals

kW	A	NO	NC	Description	Order Code	Price
4	16	-	-	B6-40-00 110AC	GJL1211201R8004	15.52
				B6-40-00 230AC	GJL1211201R8000	15.52
				B6-40-00 24AC	GJL1211201R0001	15.52
				B6-40-00-F 230AC •	GJL1211203R8000	15.52

3 pole contactors

kW	A	NO	NC	Description	Order Code	Price
5.5	20	-	1	B7-30-01 230AC	GJL1311001R8010	25.50
				B7-30-10 110AC	GJL1311001R8104	25.50
		1	-	B7-30-10 230AC	GJL1311001R8100	25.50
				B7-30-10 24AC	GJL1311001R0101	25.50

3 pole DC contactors • Flat Pin Terminals

kW	A	NO	NC	Description	Order Code	Price
4	16	-	1	BC6-30-01 110DC	GJL1213001R0014	15.52
				BC6-30-01 24DC	GJL1213001R0011	15.52
				BC6-30-01-F 24DC •	GJL1213003R0011	15.52
		1	-	BC6-30-10 24DC	GJL1213001R0101	15.52
				BC6-30-10-1.4 24DC	GJL1213001R8101	15.52
				BC7-30-10 24DC	GJL1313001R0101	25.50

Compact reversing contactors

kW	A	NO	NC	Description	Order Code	Price
-	-	-	1	VB6-30-01 110AC	GJL1211901R8014	39.45
				VB6-30-10 110AC	GJL1211901R8104	39.45
				VB6-30-10 230AC	GJL1211901R8100	39.45
		1	-	VB6-30-10 24AC	GJL1211901R0101	39.45
				VB6A-30-10 230AC	GJL1211911R8100	39.45
				VBC6-30-10 24DC	GJL1213901R0101	39.45
				VB6A-40-00 220-240V 40-450HZ	GJL1211911R8000	39.45

Mini contactor relays

kW	A	NO	NC	Description	Order Code	Price
-	-	2	2	K6-22Z 110AC	GJH1211001R8224	15.52
				K6-22Z 230AC	GJH1211001R8220	15.52
		3	1	K6-31Z 230AC	GJH1211001R8310	15.52
				KC6-22Z 110DC	GJH1213001R0224	15.52
		2	2	KC6-22Z 24DC	GJH1213001R0221	15.52

Mini contactors

Thermal overloads and accessories

1



Thermal Overload Relays

Setting [A]	Part No	Product Hierarchy 1700006	
		Order Code	Price
0.10...0.13 A	T16-0.13	1SAZ711201R1005	24.18
0.13...0.17 A	T16-0.17	1SAZ711201R1008	24.18
0.17...0.23 A	T16-0.23	1SAZ711201R1009	24.18
0.23...0.31 A	T16-0.31	1SAZ711201R1013	24.18
0.31...0.41 A	T16-0.41	1SAZ711201R1014	24.18
0.41...0.55 A	T16-0.55	1SAZ711201R1017	24.18
0.55...0.74 A	T16-0.74	1SAZ711201R1021	24.18
0.74...1.00 A	T16-1.0	1SAZ711201R1023	24.18
1.00...1.30 A	T16-1.3	1SAZ711201R1025	24.18
1.30...1.70 A	T16-1.7	1SAZ711201R1028	24.18
1.70...2.30 A	T16-2.3	1SAZ711201R1031	24.18
2.30...3.10 A	T16-3.1	1SAZ711201R1033	24.18
3.10...4.20 A	T16-4.2	1SAZ711201R1035	24.18
4.20...5.70 A	T16-5.7	1SAZ711201R1038	24.18
5.70...7.60 A	T16-7.6	1SAZ711201R1040	24.18
7.60...10.0 A	T16-10	1SAZ711201R1043	24.18
10.0...13.0 A	T16-13	1SAZ711201R1045	24.18
13.0...16.0 A	T16-16	1SAZ711201R1047	24.18

Accessories

Description	Product Hierarchy 1700003	
	Order Code	Price
LB6 Soldering receptacle 5-POL.	GJL1201902R0001	8.65
BSM6-30 Reversing connecting link	GJL1201908R0001	1.94
RV-BC6/60 Varistor	GHV2501902R0002	2.92
CAF6-02M Top Mount Aux Block	GJL1201330R0011	6.88
CAF6-11M Top Mount Aux Block	GJL1201330R0003	6.88
CAF6-20M Top Mount Aux Block	GJL1201330R0007	6.88
LB6 Soldering receptacle 5-POL.	GJL1201902R0001	8.65
BSM6-30 Reversing connecting link	GJL1201908R0001	1.94



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Manual motor starters

MS116 ... M495



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Manual Motor Starter

MS116	Setting	Product Hierarchy 1800001	
		Order Code	Price
MS116-0.16	0.1 ... 0.16A	1SAM250000R1001	33.23
MS116-0.25	0.16 ... 0.25A	1SAM250000R1002	33.23
MS116-0.4	0.25 ... 0.4A	1SAM250000R1003	33.47
MS116-0.63	0.4 ... 0.63A	1SAM250000R1004	33.47
MS116-1.0	1.0 ... 1.0A	1SAM250000R1005	35.73
MS116-1.6	1.0 ... 1.6A	1SAM250000R1006	37.86
MS116-2.5	1.6 ... 2.5A	1SAM250000R1007	39.93
MS116-4	2.5 ... 4A	1SAM250000R1008	39.93
MS116-6.3	4.0 ... 6.3A	1SAM250000R1009	39.93
MS116-10	6.3 ... 10A	1SAM250000R1010	44.25
MS116-12	8.0 ... 12A	1SAM550000R1010	44.25
MS116-16	10 ... 16A	1SAM250000R1011	44.25
MS116-20	16 ... 20A	1SAM250000R1013	53.25
MS116-25	20 ... 25A	1SAM250000R1014	60.70
MS116-32	25 ... 32A	1SAM250000R1015	76.48

1

MS132	Setting	Product Hierarchy 1800001	
		Order Code	Price
MS132-0.16	0.1 ... 0.16A	1SAM350000R1001	39.74
MS132-0.25	0.16 ... 0.25A	1SAM350000R1002	39.74
MS132-0.4	0.25 ... 0.4A	1SAM350000R1003	39.74
MS132-0.63	0.4 ... 0.63A	1SAM350000R1004	39.74
MS132-1.0	1.0 ... 1.0A	1SAM350000R1005	45.72
MS132-1.6	1.0 ... 1.6A	1SAM350000R1006	45.72
MS132-2.5	1.6 ... 2.5A	1SAM350000R1007	45.72
MS132-4.0	2.5 ... 4A	1SAM350000R1008	45.72
MS132-6.3	4.0 ... 6.3A	1SAM350000R1009	45.72
MS132-10	6.3 ... 10A	1SAM350000R1010	50.24
MS132-12	8.0 ... 12A	1SAM350000R1012	53.98
MS132-16	10 ... 16A	1SAM350000R1011	53.98
MS132-20	16 ... 20A	1SAM350000R1013	56.96
MS132-25	20 ... 25A	1SAM350000R1014	64.48
MS132-32	25 ... 32A	1SAM350000R1015	81.70

MS450 - 495	Setting	Product Hierarchy 1800001	
		Order Code	Price
MS450-40	28 ... 40A	1SAM450000R1005	153.52
MS450-45	36 ... 45A	1SAM450000R1006	168.11
MS450-50	40 ... 50A	1SAM450000R1007	172.55
MS495-63	45 ... 63A	1SAM550000R1007	183.96
MS495-75	57 ... 75A	1SAM550000R1008	193.49
MS495-100	80 ... 100A	1SAM550000R1010	228.36

Manual motor starters

Accessories

1



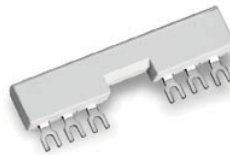
Accessories

MS116 ... MS132

	Product Hierarchy 1800001	
	Order Code	Price
AA1-24 Shunt Trip 24V	1SAM201910R1001	34.31
AA1-110 Shunt Trip 100V	1SAM201910R1002	34.31
AA1-230 Shunt Trip 220-240V	1SAM201910R1003	34.31
UA1-24	1SAM201904R1001	20.33
UA1-120	1SAM201904R1004	20.33
UA1-230	1SAM201904R1005	20.33
HKF1-11 Front	1SAM201901R1001	6.67
HK1-11 Side	1SAM201902R1001	6.67
HK1-20 Side	1SAM201902R1002	6.67
HK1-02 Side	1SAM201902R1003	6.67
SK1-11 Signal	1SAM201903R1001	10.52
SK1-20 Signal	1SAM201903R1002	10.52
SK1-02 Signal	1SAM201903R1003	10.52
BEA7/116 Connection Module	1SBN080906R1000	POA
BEA16/116 Connection Module	1SBN081406R1000	3.94

MS450 ... MS495

HK4-11 Side Mount Aux Block	1SAM401901R1001	10.69
BEA40/450 Connection Module	1SBN083206R1000	9.35
PSR60-105 & MS495 Connection kit	1SAM450000R1006	168.11



3-phase busbar up to 65A

MS116	MS132	No. MMS	Aux Contacts	Part no	Product Hierarchy 1800001	
					Order Code	Price
•	•	2	0	PS1-2-0-65	1SAM201906R1102	6.47
•	•	3	0	PS1-3-0-65	1SAM201906R1103	7.65
•	•	4	0	PS1-4-0-65	1SAM201906R1104	8.94
•	•	5	0	PS1-5-0-65	1SAM201906R1105	9.77
•	•	2	1	PS1-2-1-65	1SAM201906R1112	6.76
•	•	3	1	PS1-3-1-65	1SAM201906R1113	7.99
•	•	4	1	PS1-4-1-65	1SAM201906R1114	9.06
•	•	5	1	PS1-5-1-65	1SAM201906R1115	10.17
•	•	2	2	PS1-2-2-65	1SAM201906R1122	7.75
•	•	3	2	PS1-3-2-65	1SAM201906R1123	8.66
•	•	4	2	PS1-4-2-65	1SAM201906R1124	9.62
•	•	5	2	PS1-5-2-65	1SAM201906R1125	10.92

3-phase feeder terminals

65A	Remarks	mm ²	Part no	Product Hierarchy 1800001	
				Order Code	Price
•	flat	25mm ²	S1-M1-25	1SAM201907R1101	6.78
•	high		S1-M2-25	1SAM201907R1102	8.09



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Manual motor starters

Accessories

Accessories	Part No	Product Hierarchy 1800001	
		Order Code	Price
Shaft 85mm	OXS6X85	1SCA101647R1001	2.20
Shaft 105mm	OXS6X105	1SCA108043R1001	2.13
Shaft 130mm	OXS6X130	1SCA101655R1001	2.41
Shaft 180mm	OXS6X180	1SCA101659R1001	3.00
MSHD-LB Handle,IP64,black for MS116	MSHD-LB	1SAM201920R1001	12.73
MSHD-LY Handle,IP64,red/yellow for MS116	MSHD-LY	1SAM201920R1002	12.73
MSHD-LTB Hndl w.trip,IP64,black,MS/MO132	MSHD-LTB	1SAM201920R1011	15.76
MSHD-LTY w.trip,IP64,red/yw,MS/MO132	MSHD-LTY	1SAM201920R1012	15.76
MSMNO Driver w/o coding w.ScrewMS116&132	MSMNO	1SAM101923R0002	2.18
MSMN Driver w. Screw for MS116 & MS132	MSMNO	1SAM101923R0012	2.01



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Soft starters

Overview

Efficient PSE Range – World's first compact softstarter with Torque control

The latest addition to the ABB softstarter family is the efficient PSE range. This softstarter has been equipped with all the most important features making it a very efficient choice. During the development process, great focus has been put into making sure that both the softstarter and the process are even more reliable. Further more, the softstarter has been equipped with built-in by-pass to reduce the wiring and also with a back-lit display to provide a hassle free and easy set-up and monitoring.

The complete range of Softstarters

The ABB softstarter portfolio now consists of 4 different ranges making it possible to find a suitable softstarter for almost all possible applications and motor sizes all the way up to 1800A. The softstarter family consists of the Compact PSR, the Flexible PSS, the Efficient PSE and the Advanced PST(B) range.

1

Semiconductor fuses changed to knife type

The Bussmann semiconductor fuses, recommended to be used together with PSS, PSE and PST(B) softstarters have been changed from screw fixing (DIN43 653) to knife fixing (DIN43 620). This will make it possible to use the standard OS type switch fuses from ABB.



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Soft starters

Basic PSR and PSE



PSR3 ... PSR16

PSR Basic Softstarts

Description	Part No	Product Hierarchy 1800002	
		Order Code	Price
Basic Softstarter 3A	PSR3-600-70	1SFA896103R7000	96.40
Basic Softstarter 6A	PSR6-600-70	1SFA896104R7000	107.69
Basic Softstarter 9A	PSR9-600-70	1SFA896105R7000	126.77
Basic Softstarter 12A	PSR12-600-70	1SFA896106R7000	137.24
Basic Softstarter 16A	PSR16-600-70	1SFA896107R7000	158.18
Basic Softstarter 25A	PSR25-600-70	1SFA896108R7000	179.16
Basic Softstarter 30A	PSR30-600-70	1SFA896109R7000	211.59
Basic Softstarter 37A	PSR37-600-70	1SFA896110R7000	270.68
Basic Softstarter 45A	PSR45-600-70	1SFA896111R7000	347.86
Basic Softstarter 60A	PSR60-600-70	1SFA896112R7000	398.27
Basic Softstarter 72A	PSR72-600-70	1SFA896113R7000	479.78
Basic Softstarter 85A	PSR85-600-70	1SFA896114R7000	526.32
Basic Softstarter 105A	PSR105-600-70	1SFA896115R7000	580.04
Connection Kit PSR3- 6 with MS116 or MS132	PSR16-MS116	1SFA896211R1001	6.33
Connection kit PSR25-30 with MS132 12 to 32	PSR30-MS132	1SFA896212R1001	13.21
Connection Kit PSR37-45 and MS450	PSR45-450	1SFA896213R1001	16.04
Connection Kit PSR60-105 and MS495	PSR105-MS495	1SAM501903R1001	14.83
Fan for PSR3 to PSR45	PSR-FAN3-45A	1SFA896311R1001	37.44
Fan for PSR60 to PSR105	PSR-FAN60-105A	1SFA896313R1001	40.94



PSE Basic Softstarts with Overload

Description	Part No	Product Hierarchy 1800002	
		Order Code	Price
Basic Softstarter with Overload 18A	PSE18-600-70	1SFA897101R7000	370.73
Basic Softstarter with Overload 25A	PSE25-600-70	1SFA897102R7000	386.57
Basic Softstarter with Overload 30A	PSE30-600-70	1SFA897103R7000	404.31
Basic Softstarter with Overload 37A	PSE37-600-70	1SFA897104R7000	484.07
Basic Softstarter with Overload 45A	PSE45-600-70	1SFA897105R7000	577.79
Basic Softstarter with Overload 60A	PSE60-600-70	1SFA897106R7000	685.53
Basic Softstarter with Overload 72A	PSE72-600-70	1SFA897107R7000	794.65
Basic Softstarter with Overload 85A	PSE85-600-70	1SFA897108R7000	895.38
Basic Softstarter with Overload 105A	PSE105-600-70	1SFA897109R7000	975.10
Basic Softstarter with Overload 142A	PSE142-600-70	1SFA897110R7000	1033.88
Basic Softstarter with Overload 170A	PSE170-600-70	1SFA897111R7000	1284.30
Basic Softstarter with Overload 210A	PSE210-600-70	1SFA897112R7000	1362.50
Basic Softstarter with Overload 250A	PSE250-600-70	1SFA897113R7000	1440.98
Basic Softstarter with Overload 300A	PSE300-600-70	1SFA897114R7000	1622.87
Basic Softstarter with Overload 370A	PSE370-600-70	1SFA897115R7000	1888.68
External Keypad for PSE Range	PSEEK	1SFA897100R1001	100.55



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Soft starters

Advanced PST

1



PST30...PST72

PST Advanced Softstarts with Overload

Description	Part No	Product Hierarchy 1600001	
		Order Code	Price
Advanced Softstarter 30A	PST30-600-70	1SFA894002R7000	986.96
Advanced Softstarter 37A	PST37-600-70	1SFA894003R7000	1075.92
Advanced Softstarter 44A	PST44-600-70	1SFA894004R7000	1134.72
Advanced Softstarter 50A	PST50-600-70	1SFA894005R7000	1170.59
Advanced Softstarter 60A	PST60-600-70	1SFA894006R7000	1266.71
Advanced Softstarter 72A	PST72-600-70	1SFA894007R7000	1453.20
Advanced Softstarter 85A	PST85-600-70	1SFA894008R7000	1575.14
Advanced Softstarter 105A	PST105-600-70	1SFA894009R7000	1722.90
Advanced Softstarter 142A	PST142-600-70	1SFA894010R7000	1988.29
Advanced Softstarter 175A	PST175-600-70	1SFA894011R7000	2239.32
Advanced Softstarter 210A	PST210-600-70	1SFA894012R7000	2447.35
Advanced Softstarter 250A	PST250-600-70	1SFA894013R7000	2684.03
Advanced Softstarter 300A	PST300-600-70	1SFA894014R7000	2760.07
Advanced Softstarter 370A with Integrated Bypass	PSTB370-600-70	1SFA894015R7000	4249.53
Advanced Softstarter 470A with Integrated Bypass	PSTB470-600-70	1SFA894016R7000	5344.71
Advanced Softstarter 570A with Integrated Bypass	PSTB570-600-70	1SFA894017R7000	6441.52
Advanced Softstarter 720A with Integrated Bypass	PSTB720-600-70	1SFA894018R7000	7877.71
Advanced Softstarter 840A with Integrated Bypass	PSTB840-600-70	1SFA894019R7000	8702.36
Advanced Softstarter 1050A with Integrated Bypass	PSTB1050-600-70	1SFA894020R7000	10976.34
External Keypad kit for PST range	PSTEK	1SFA899003R1000	271.54



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Pilot devices - compact 22mm Pushbuttons



Pushbuttons BLACK plastic bezel

Type	Contacts		Part No	Product Hierarchy 1300001	
	N/O	N/C		Order Code	Price
Flush momentary	1	-	CP1-10 ■-10	1SFA619100R101 ¹	5.45
	2	-	CP1-10 ■-20	1SFA619100R102 ¹	7.72
	-	1	CP1-10 ■-01	1SFA619100R104 ¹	5.45
	-	2	CP1-10 ■-02	1SFA619100R105 ¹	7.72
	1	1	CP1-10 ■-11	1SFA619100R107 ¹	7.72
Flush maintained	1	-	CP2-10 ■-10	1SFA619101R101 ¹	9.08
	2	-	CP2-10 ■-20	1SFA619101R102 ¹	11.33
	-	1	CP2-10 ■-01	1SFA619101R104 ¹	9.08
	-	2	CP2-10 ■-02	1SFA619101R105 ¹	11.34
	1	1	CP2-10 ■-11	1SFA619101R107 ¹	11.33
Extended momentary	1	-	CP3-10 ■-10	1SFA619102R101 ¹	5.45
	2	-	CP3-10 ■-20	1SFA619102R102 ¹	7.72
	-	1	CP3-10 ■-01	1SFA619102R104 ¹	5.45
	-	2	CP3-10 ■-02	1SFA619102R105 ¹	7.36
	1	1	CP3-10 ■-11	1SFA619102R107 ¹	7.72
Extended maintained	1	-	CP4-10 ■-10	1SFA619103R101 ¹	9.09
	2	-	CP4-10 ■-20	1SFA619103R102 ¹	11.34
	-	1	CP4-10 ■-01	1SFA619103R104 ¹	9.09
	-	2	CP4-10 ■-02	1SFA619103R105 ¹	11.33
	1	1	CP4-10 ■-11	1SFA619103R107 ¹	11.34



Select your colour by replacing ¹ with a digit from the chart below

Order example:
Ex 1: Type CP1-10■-10, to order color red replace ■ with R: CP1-10 R-10
Ex 2: Order code 1SFA619100R101¹
 To order color red replace ¹ with 1: 1SFA619100R1011

Color codes								
	Red	Green	Yellow	Blue	White	Black	Grey	Clear
Type ■	R	G	Y	L	W	B	U	C
Order Code ¹	1	2	3	4	5	6	7	8



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Pilot devices - compact 22mm Pushbuttons

1



Pushbuttons CHROME metal bezel				Product Hierarchy 1300001	
Type	Contacts		Part No	Order Code	Price
	N/O	N/C			
Flush momentary	1	-	CP1-30 ■-30	1SFA619100R301 ¹	6.00
	2	-	CP1-30 ■-20	1SFA619100R302 ¹	8.48
	-	1	CP1-30 ■-01	1SFA619100R304 ¹	6.00
	-	2	CP1-30 ■-02	1SFA619100R305 ¹	8.48
	1	1	CP1-30 ■-11	1SFA619100R307 ¹	8.48
Flush maintained	1	-	CP2-30 ■-30	1SFA619101R301 ¹	8.78
	2	-	CP2-30 ■-20	1SFA619101R302 ¹	10.93
	-	1	CP2-30 ■-01	1SFA619101R304 ¹	8.78
	-	2	CP2-30 ■-02	1SFA619101R305 ¹	10.93
	1	1	CP2-30 ■-11	1SFA619101R307 ¹	10.93
Extended momentary	1	-	CP3-30 ■-30	1SFA619102R301 ¹	6.00
	2	-	CP3-30 ■-20	1SFA619102R302 ¹	8.48
	-	1	CP3-30 ■-01	1SFA619102R304 ¹	6.00
	-	2	CP3-30 ■-02	1SFA619102R305 ¹	8.48
	1	1	CP3-30 ■-11	1SFA619102R307 ¹	8.48
Extended maintained	1	-	CP4-30 ■-30	1SFA619103R301 ¹	10.00
	2	-	CP4-30 ■-20	1SFA619103R302 ¹	12.47
	-	1	CP4-30 ■-01	1SFA619103R304 ¹	10.00
	-	2	CP4-30 ■-02	1SFA619103R305 ¹	12.47
	1	1	CP4-30 ■-11	1SFA619103R307 ¹	12.47

Select your colour by replacing ¹ with a digit from the chart below

Order example:
Ex 1: Type CP1-10■-10, to order color red replace ■ with R: CP1-10 R-10
Ex 2: Order code 1SFA619100R101¹
 To order color red replace ¹ with 1: 1SFA619100R1011

Color codes									
	Red	Green	Yellow	Blue	White	Black	Grey	Clear	
Type ■	R	G	Y	L	W	B	U	C	
Order Code ¹	1	2	3	4	5	6	7	8	



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Pilot devices - compact 22mm

Illuminated pushbuttons



Illuminated pushbuttons with integrated LED BLACK plastic bezel

Type	Voltage	N/O	N/C	Part No	Product Hierarchy 1300001	
					Order Code	Price
Flush momentary	24V AC/DC	1	-	CP1-11 ■-10	1SFA619100R111 ¹	7.90
Flush momentary red		-	1	CP1-11 R-01	1SFA619100R1141	7.90
Extended momentary		1	-	CP3-11 ■-10	1SFA619102R111 ¹	7.90
Extended momentary red		-	1	CP3-11 R-01	1SFA619102R1141	7.90
Flush momentary	110-130V AC/DC	1	-	CP1-12 ■-10	1SFA619100R121 ¹	7.90
Flush momentary red		-	1	CP1-12 R-01	1SFA619100R1241	7.90
Extended momentary		1	-	CP3-12 ■-10	1SFA619102R121 ¹	7.90
Extended momentary red		-	1	CP3-12 R-01	1SFA619102R1241	7.90
Flush momentary	220V AC/DC	1	-	CP1-13 ■-10	1SFA619100R131 ¹	7.90
Flush momentary red		-	1	CP1-13 R-01	1SFA619100R1341	7.90
Extended momentary		1	-	CP3-13 ■-10	1SFA619102R131 ¹	7.90
Extended momentary red		-	1	CP3-13 R-01	1SFA619102R1341	7.90
Flush maintained	24V AC/DC	1	-	CP2-11 ■-10	1SFA619101R111 ¹	7.90
Flush maintained red		-	1	CP2-11 R-01	1SFA619101R1141	7.90
Extended maintained		1	-	CP4-11 ■-10	1SFA619101R111 ¹	7.90
Extended maintained red		-	1	CP4-11 R-01	1SFA619101R1141	7.90
Flush maintained	110-130V AC/DC	1	-	CP2-12 ■-10	1SFA619101R121 ¹	7.90
Flush maintained red		-	1	CP2-12 R-01	1SFA619101R1241	7.90
Extended maintained		1	-	CP4-12 ■-10	1SFA619101R121 ¹	7.90
Extended maintained red		-	1	CP4-12 R-01	1SFA619101R1241	7.90
Flush maintained	220V AC/DC	1	-	CP2-13 ■-10	1SFA619101R131 ¹	7.90
Flush maintained red		-	1	CP2-13 R-01	1SFA619101R1341	7.90
Extended maintained		1	-	CP4-13 ■-10	1SFA619101R131 ¹	7.90
Extended maintained red		-	1	CP4-13 R-01	1SFA619101R1341	7.90



Select your colour by replacing ¹ with a digit from the chart below

Order example:
Ex 1: Type CP1-10■-10, to order color red replace ■ with R: CP1-10 R-10
Ex 2: Order code 1SFA619100R101¹
 To order color red replace ¹ with 1: 1SFA619100R1011

Color codes								
	Red	Green	Yellow	Blue	White	Black	Grey	Clear
Type ■	R	G	Y	L	W	B	U	C
Order Code ¹	1	2	3	4	5	6	7	8



Full range of product and technical information place this part number in a search engine and download
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Pilot devices - compact 22mm

Illuminated pushbuttons

1



Illuminated pushbuttons with integrated LED CHROME metal bezel

Type	Voltage	N/O	N/C	Part No	Product Hierarchy 1300001	
					Order Code	Price
Flush momentary	24V AC/DC	1	-	CP1-31 ■-10	1SFA619100R111[1]	7.90
Flush momentary red		-	1	CP1-31 R-01	1SFA619100R1141	7.90
Extended momentary		1	-	CP3-31 ■-10	1SFA619102R111[1]	7.90
Extended momentary red		-	1	CP3-31 R-01	1SFA619102R1141	7.90
Flush momentary	110-130V AC/DC	1	-	CP1-32 ■-10	1SFA619100R121[1]	7.90
Flush momentary red		-	1	CP1-32 R-01	1SFA619100R1241	7.90
Extended momentary		1	-	CP3-32 ■-10	1SFA619102R121[1]	7.90
Extended momentary red		-	1	CP3-32 R-01	1SFA619102R3241	7.90
Flush momentary	220V AC/DC	1	-	CP1-33 ■-10	1SFA619100R331[1]	7.90
Flush momentary red		-	1	CP1-33 R-01	1SFA619100R1341	7.90
Extended momentary		1	-	CP3-33 ■-10	1SFA619102R131[1]	7.90
Extended momentary red		-	1	CP3-33 R-01	1SFA619102R1341	7.90
Flush maintained	24V AC/DC	1	-	CP2-31 ■-10	1SFA619101R111[1]	7.90
Flush maintained red		-	1	CP2-31 R-01	1SFA619101R1141	7.90
Extended maintained		1	-	CP4-31 ■-10	1SFA619101R111[1]	7.90
Extended maintained red		-	1	CP4-31 R-01	1SFA619101R1141	7.90
Flush maintained	110-130V AC/DC	1	-	CP2-32 ■-10	1SFA619101R121[1]	7.90
Flush maintained red		-	1	CP2-32 R-01	1SFA619101R1241	7.90
Extended maintained		1	-	CP4-32 ■-10	1SFA619101R121[1]	7.90
Extended maintained red		-	1	CP4-32 R-01	1SFA619101R1241	7.90
Flush maintained	220V AC/DC	1	-	CP2-33 ■-10	1SFA619101R131[1]	7.90
Flush maintained red		-	1	CP2-33 R-01	1SFA619101R1341	7.90
Extended maintained		1	-	CP4-33 ■-10	1SFA619101R131[1]	7.90
Extended maintained red		-	1	CP4-33 R-01	1SFA619101R1341	7.90

Select your colour by replacing [1] with a digit from the chart below

Order example:
Ex 1: Type CP1-10■-10, to order color red replace ■ with R: CP1-10 R-10
Ex 2: Order code 1SFA619100R101□
 To order color red replace □ with 1: 1SFA619100R1011

Color codes		Red	Green	Yellow	Blue	White	Black	Grey	Clear
Type ■		R	G	Y	L	W	B	U	C
Order Code □		1	2	3	4	5	6	7	8

Pilot devices - compact 22mm

Selector switches



Selector switches 2 position BLACK plastic bezel

Type	Contacts			Product Hierarchy 1300001	
	N/O	N/C	Part No	Order Code	Price
Red Stay Put -BC	1	-	C2SS1-10 ■-10	1SFA619200R1011	7.69
	2	-	C2SS1-10 ■-20	1SFA619200R1021	9.95
	1	1	C2SS1-10 ■-11	1SFA619200R1071	9.95
Black Stay Put -AC	1	0	C2SS2-10 ■-10	1SFA619201R1016	7.71
	2	0	C2SS2-10 ■-20	1SFA619201R1026	9.95
Red Stay Put -AC	1	1	C2SS2-10 ■-11	1SFA619201R1071	9.95
Red Spring Return -BC	1	0	C2SS3-10 ■-10	1SFA619202R1011	7.69
Black Spring Return -BC	2	0	C2SS3-10 ■-20	1SFA619202R1026	9.95
Red Spring Return -BC	1	1	C2SS3-10 ■-11	1SFA619202R1071	9.95



Selector switches 3 position BLACK plastic bezel

Black Stay Put -ABC	2	-	C3SS1-10 ■-20	1SFA619210R1026	9.95
Red Stay Put -ABC	1	1	C3SS1-10 ■-11	1SFA619210R1071	9.95
Red Spring Return -ABC	2	-	C3SS2-10 ■-20	1SFA619211R1021	9.94
Black Spring Return -ABC	1	1	C3SS2-10 ■-11	1SFA619211R1076	9.94
Red Spring Return -BC	2	-	C3SS3-10 ■-20	1SFA619212R1021	9.94
	1	1	C3SS3-10 ■-11	1SFA619212R1071	9.94

Selector switches 2 position CHROME metal bezel

Type	Contacts			Product Hierarchy 1300001	
	N/O	N/C	Part No	Order Code	Price
Red Stay Put -BC	1	-	C2SS1-30 ■-10	1SFA619200R3011	8.47
	2	-	C2SS1-30 ■-20	1SFA619200R3021	10.93
	1	1	C2SS1-30 ■-11	1SFA619200R3071	10.93
Black Stay Put -AC	1	0	C2SS2-30 ■-10	1SFA619201R3016	8.47
	2	0	C2SS2-30 ■-20	1SFA619201R3026	10.93
Red Stay Put -AC	1	1	C2SS2-30 ■-11	1SFA619201R3071	10.93
Red Spring Return -BC	1	0	C2SS3-30 ■-10	1SFA619202R3011	8.47
Black Spring Return -BC	2	0	C2SS3-30 ■-20	1SFA619202R3026	10.93
Red Spring Return -BC	1	1	C2SS3-30 ■-11	1SFA619202R3071	10.93

Selector switches 3 position CHROME metal bezel

Black Stay Put -ABC	2	-	C3SS1-30 ■-20	1SFA619210R3026	10.93
Red Stay Put -ABC	1	1	C3SS1-30 ■-11	1SFA619210R3071	10.93
Red Spring Return -ABC	2	-	C3SS2-30 ■-20	1SFA619211R3021	10.93
Black Spring Return -ABC	1	1	C3SS2-30 ■-11	1SFA619211R3076	10.93
Red Spring Return -BC	2	-	C3SS3-30 ■-20	1SFA619212R3021	10.93
	1	1	C3SS3-30 ■-11	1SFA619212R3071	10.93



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Pilot devices - compact 22mm

Emergency stops, pilot lights & enclosures

1



Emergency stop buttons

Type	Contacts		Part No	Product Hierarchy 1300001	
	N/O	N/C		Order Code	Price
30mm Twist Release Red	-	1	CE3T-10R-01	1SFA619500R1041	9.44
	-	2	CE3T-10R-02	1SFA619500R1051	11.39
	1	1	CE3T-10R-11	1SFA619500R1071	11.39
40mm Twist Release Red	-	1	CE4T-10R-01	1SFA619550R1041	10.13
	-	2	CE4T-10R-02	1SFA619550R1051	12.11
	1	1	CE4T-10R-11	1SFA619550R1071	12.11
40mm Key Release Red	-	1	CE4K-10R-01	1SFA619552R1051	20.06
	-	2	CE4K-10R-02	1SFA619552R1071	20.06

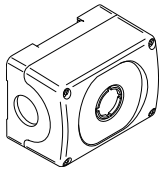


Pilot light complete

Type	Part No	Product Hierarchy 1300001	
		Order Code	Price
Integrated Led 24V AC/DC	CL502	1SFA619402R5021	7.85
Integrated Led 110-130V AC	CL513	1SFA619402R5131	9.73
Integrated Led 220V DC	CL520	1SFA619402R5201	10.46
Integrated Led 230V AC	CL523	1SFA619402R5231	10.28

Pilot light lens only

Red	CL-100 R	1SFA619402R1001	4.12
Green	CL-100 G	1SFA619402R1002	4.12
Yellow	CL-100 Y	1SFA619402R1003	4.12
Blue	CL-100 B	1SFA619402R1004	4.12
White	CL-100 W	1SFA619402R1005	4.12
Clear	CL-100 C	1SFA619402R1008	4.12



Enclosures

Type	Part No	Product Hierarchy 1300001	
		Order Code	Price
Enclosure 1 hole - yellow	CEPY1-0	1SFA619821R1000	9.27
Enclosed E-Stop (twist release 2NO)	CEPY1-1001	1SFA619821R1001	21.18
Enclosed E-Stop with shroud (twist release 2NC)	CEPY1-2001	1SFA619821R2001	24.10
E-Stop shroud for compact enclosure	CA1-8053	1SFA619920R8053	3.79



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Pilot devices - modular 22mm

Standard pushbuttons



Standard pushbuttons BLACK plastic bezel

			Product Hierarchy 1300001		
Type			Part No	Order Code	Price
Flush	Momentary	Non illuminated	MP1-10 ■	1SFA611100R100[1]	3.48
	Maintained		MP2-10 ■	1SFA611101R100[1]	3.48
	Momentary	Illuminated	MP1-11 ■	1SFA611100R110[1]	3.48
	Maintained		MP2-11 ■	1SFA611101R110[1]	4.60
Extended	Momentary	Non illuminated	MP3-10 ■	1SFA611102R100[1]	3.48
	Maintained		MP4-10 ■	1SFA611103R100[1]	6.01
	Momentary	Illuminated	MP3-11 ■	1SFA611102R110[1]	3.48
	Maintained		MP4-11 ■	1SFA611103R110[1]	6.01



Standard pushbuttons CHROME plastic bezel

Flush	Momentary	Non illuminated	MP1-20 ■	1SFA611100R200[1]	3.48
	Maintained		MP2-20 ■	1SFA611101R200[1]	3.48
	Momentary	Illuminated	MP1-21 ■	1SFA611100R210[1]	3.48
	Maintained		MP2-21 ■	1SFA611101R210[1]	3.34
Extended	Momentary	Non illuminated	MP3-20 ■	1SFA611102R200[1]	3.48
	Maintained		MP4-20 ■	1SFA611103R200[1]	6.01
	Momentary	Illuminated	MP3-21 ■	1SFA611102R210[1]	3.48
	Maintained		MP4-21 ■	1SFA611103R210[1]	6.01



Standard pushbuttons CHROME metal bezel

Flush	Momentary	Non illuminated	MP1-30 ■	1SFA611100R300[1]	4.60
	Maintained		MP2-30 ■	1SFA611101R300[1]	7.32
	Momentary	Illuminated	MP1-31 ■	1SFA611100R310[1]	4.60
	Maintained		MP2-31 ■	1SFA611101R310[1]	3.48
Extended	Momentary	Non illuminated	MP3-30 ■	1SFA611102R300[1]	4.60
	Maintained		MP4-30 ■	1SFA611103R300[1]	7.10
	Momentary	Illuminated	MP3-31 ■	1SFA611102R310[1]	4.60
	Maintained		MP4-31 ■	1SFA611103R310[1]	7.10

Select your colour by replacing [1] with a digit from the chart below

How to order standard operators:				Color codes			Contact blocks including holder with 3 blocks		
Description	Type	Order Code		Description	Type	Order Code	Description	Type	Order Code
• Non- illuminated operator + holder + contact block(s)	■	1	Red	1 NO	MCBH-10	1SFA611605R1101			
	G	2	Green	2 NC	MCBH-01	1SFA611605R1110			
	Y	3	Yellow	2 NO	MCBH-02	1SFA611605R1120			
	L	4	Blue	2 NO	MCBH-20	1SFA611605R1102			
	W	5	White	1 NO+1 NC	MCBH-11	1SFA611605R1111			
	B	6	Black	1 NO+2 NC	MCBH-12	1SFA611605R1121			
	U	7	Grey	Contact blocks					
	C	8	Clear	1 NO	MCB-10	1SFA611610R1001			
				1 NC	MCB-01	1SFA611610R1010			
				Separate holder for 3 blocks					
				Holder	MCBH-00	1SFA611605R1100			

Ordering example:
 Ex 1: Type CP1-10■-10, to order color red replace ■ with R: CP1-10 R-10
 Ex 2: Order code 1SFA619100R101_, to order color red replace _ with 1: 1SFA619100R1011



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Pilot devices - modular 22mm

Double pushbuttons & selector switches

1



Double pushbuttons BLACK plastic bezel

			Product Hierarchy 1300001		
Type			Part No	Order Code	Price
Flush	No text	Non illuminated	MPD1-11B	1SFA611130R1106	8.76
	I/O		MPD2-11B	1SFA611131R1106	11.81
Extended lower button	No text	Non illuminated	MPD12-11B	1SFA611141R1106	8.76
	I/O		MPD13-11B	1SFA611142R1106	8.76
	Start/stop		MPD15-11B	1SFA611144R1106	11.81
	No text	Illuminated	MPD12-11C	1SFA611141R1108	8.76
	I/O		MPD13-11C	1SFA611142R1108	8.76
	Start/stop		MPD15-11C	1SFA611142R1108	8.76



Selectors switches BLACK plastic bezel

			Product Hierarchy 1300001		
Type			Part No	Order Code	Price
Three position	ABC	Short handle	M3SSC1-10B	1SFA611250R1006	6.57
	BC		M3SSC3-10B	1SFA611252R1006	6.57
	ABC	Long handle	M3SSC4-10B	1SFA611253R1006	6.57
	BC		M3SSC6-10B	1SFA611255R1006	6.57
Two position	BC maintained	Short handle	M2SS1-10 ■	1SFA611200R100 [1]	6.27
	BC momentary		M2SS2-10 ■	1SFA611202R100 [1]	6.27
	BC maintained	Long handle	M2SS4-10 ■	1SFA611203R100 [1]	6.27
Two position illuminated	BC maintained	Short handle	M2SS1-11 ■	1SFA611200R110 [1]	6.27
	AC maintained		M2SS2-11 ■	1SFA611201R110 [1]	6.27
	BC momentary	Long handle	M2SS3-11 ■	1SFA611202R110 [1]	6.27
	BC maintained		M2SS4-11 ■	1SFA611203R110 [1]	6.03

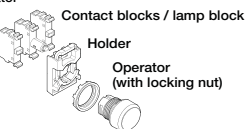


Selectors switches CHROME metal bezel

Three position	ABC	Short handle	M3SSC1-10B	1SFA611250R3006	7.68
	BC		M3SSC3-10B	1SFA611252R3006	7.68
	ABC	Long handle	M3SSC4-10B	1SFA611253R1006	6.57
	BC		M3SSC6-10B	1SFA611255R3006	7.68
Two position	BC maintained	Short handle	M2SS1-10 ■	1SFA611200R300 [1]	7.12
	BC momentary		M2SS2-10 ■	1SFA611202R300 [1]	7.12
	BC maintained	Long handle	M2SS4-10 ■	1SFA611203R300 [1]	7.12
Two position illuminated	BC maintained	Short handle	M2SS1-11 ■	1SFA611200R310 [1]	7.12
	AC maintained		M2SS2-11 ■	1SFA611201R310 [1]	7.12
	BC momentary	Long handle	M2SS3-11 ■	1SFA611202R310 [1]	7.12
	BC maintained		M2SS4-11 ■	1SFA611203R310 [1]	7.12

How to order standard operators:

- Non-illuminated operator + holder + contact block(s)
- Illuminated operator + holder + contact block(s) + lamp block



Color codes

Description	Type	Order Code
Red	R	1
Green	G	2
Yellow	Y	3
Blue	L	4
White	W	5
Black	B	6
Grey	U	7
Clear	C	8

Contact blocks including holder with 3 blocks

Description	Type	Order Code
1 NO	MCBH-10	1SFA611605R1101
1 NC	MCBH-01	1SFA611605R1110
2 NC	MCBH-02	1SFA611605R1120
2 NO	MCBH-20	1SFA611605R1102
1 NO+1 NC	MCBH-11	1SFA611605R1111
1 NO+2 NC	MCBH-12	1SFA611605R1121

Separate holder for 3 blocks		
Holder	MCBH-00	1SFA611605R1100

Select your colour by replacing [1] with a digit from the chart below

Pilot devices - modular 22mm

Emergency, machine stops & mushroom pushbuttons



Emergency stops

Type		Part No	Product Hierarchy 1300001	
			Order Code	Price
30mm Red Non illuminated	Twist release	MPET3-10R	1SFA611520R1001	11.52
	Pull release	MPEP3-10R	1SFA611521R1001	11.52
	Key release	MPEK3-10R	1SFA611522R1101	21.14
40mm Red Non illuminated	Twist release	MPET4-10R	1SFA611523R1001	10.16
	Pull release	MPEP4-10R	1SFA611524R1001	10.16
	Key release	MPEK4-10R	1SFA611525R1101	21.14
40mm Red Illuminated	Twist release	MPMT3-11R	1SFA611510R1101	13.02
	Pull release	MPMP3-11R	1SFA611511R1101	13.02
60mm Red Illuminated	Twist release	MPMT4-11R	1SFA611513R1101	14.00
	Pull release	MPMP4-11R	1SFA611514R1101	14.02

Machine stops

30mm Black	Twist release	MPET3-10B	1SFA611520R1006	10.16
	Pull release	MPEP3-10B	1SFA611521R1006	10.16
	Key release	MPEK3-10B	1SFA611522R1106	10.16
40mm Black	Twist release	MPET4-10B	1SFA611523R1006	10.16
	Pull release	MPEP4-10B	1SFA611524R1006	10.16
	Key release	MPEK4-10B	1SFA611525R1106	21.14

Mushroom pushbuttons

40mm Non illuminated momentary	Red	MPM1-10R	1SFA611124R1001	10.67
	Green	MPM1-10G	1SFA611124R1002	10.67
	Yellow	MPM1-10Y	1SFA611124R1003	10.67
	Black	MPM1-10B	1SFA611124R1006	10.67
60mm Non illuminated momentary	Red	MPM2-10R	1SFA611125R1001	11.25
	Yellow	MPM2-10Y	1SFA611125R1003	11.25
	Black	MPM2-10B	1SFA611125R1006	11.25
40mm Illuminated momentary	Red	MPM1-11R	1SFA611124R1001	10.67
	Green	MPM1-11G	1SFA611124R1002	10.67
	Yellow	MPM1-10Y	1SFA611124R1003	10.67
60mm Illuminated momentary	Red	MPM2-11R	1SFA611125R1101	11.14
	Yellow	MPM2-11Y	1SFA611125R1103	11.25

1



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Pilot devices - modular 22mm

Key switches, pilot lights

1



Key switches BLACK plastic bezel

Type			Part No	Product Hierarchy 1300001		
				Order Code	Price	
Two position Key release in BC positions	71/Ronis 455	Maintained BC	M2SSK1-101	1SFA611280R1001	17.20	
	72/Ronis 421		M2SSK1-102	1SFA611280R1002	17.20	
	73/Ronis 3433-E		M2SSK1-103	1SFA611280R1003	17.20	
Two position Key release in B positions	71/Ronis 455		M2SSK2-101	1SFA611281R1001	17.20	
	72/Ronis 421		M2SSK2-102	1SFA611281R1002	17.20	
	73/Ronis 3433-E		M2SSK2-103	1SFA611281R1003	17.20	
Two position	71/Ronis 455		Momentary BC	M2SSK3-101	1SFA611282R1001	17.20
	72/Ronis 421			M2SSK3-102	1SFA611282R1002	17.20
	73/Ronis 3433-E			M2SSK3-103	1SFA611282R1003	17.20
Three position	71/Ronis 455	Maintained ABC	M3SSK1-101	1SFA611283R1001	17.20	
	72/Ronis 421		M3SSK1-102	1SFA611283R1002	17.20	
	73/Ronis 3433-E		M3SSK1-103	1SFA611283R1003	15.91	

Key switches CHROME metal bezel

Type			Part No	Product Hierarchy 1300001		
				Order Code	Price	
Two position Key release in BC positions	71/Ronis 455	Maintained BC	M2SSK1-301	1SFA611280R1001	17.20	
	72/Ronis 421		M2SSK1-302	1SFA611280R1002	17.20	
	73/Ronis 3433-E		M2SSK1-303	1SFA611280R1003	17.20	
Two position Key release in B positions	71/Ronis 455		M2SSK2-301	1SFA611281R1001	17.20	
	72/Ronis 421		M2SSK2-302	1SFA611281R1002	17.20	
	73/Ronis 3433-E		M2SSK2-303	1SFA611281R1003	17.20	
Two position	71/Ronis 455		Momentary BC	M2SSK3-301	1SFA611282R1001	17.20
	72/Ronis 421			M2SSK3-302	1SFA611282R1002	17.20
	73/Ronis 3433-E			M2SSK3-303	1SFA611282R1003	17.20
Three position	71/Ronis 455	Maintained ABC	M3SSK1-301	1SFA611283R1001	17.20	
	72/Ronis 421		M3SSK1-302	1SFA611283R1002	17.20	
	73/Ronis 3433-E		M3SSK1-303	1SFA611283R1003	15.91	



Pilot lights

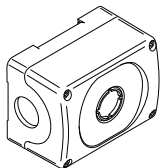
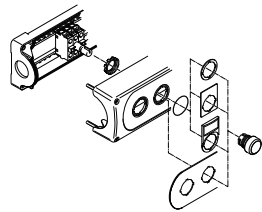
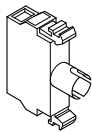
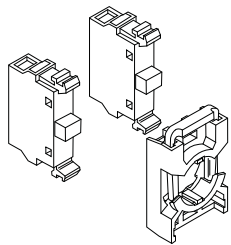
Red	ML-100 R	1SFA611400R1001	3.43
Green	ML-100 G	1SFA611400R1002	3.43
Yellow	ML-100 Y	1SFA611400R1003	3.43
Blue	ML-100 B	1SFA611400R1004	3.43
White	ML-100 W	1SFA611400R1005	3.43
Clear	ML-100 C	1SFA611400R1008	3.43
Light diffusing lens	KA1-8005	1SFA616920R8005	0.53



Full range of product and technical information place this part number in a search engine and download
1SFC151004C0201

Pilot Devices - modular 22mm

Contacts, lamp blocks and accessories



Full range of product and technical information place this part number in a search engine and download
1SFC151004C0201

Contact blocks with 3-holder included

Type	Part No	Product Hierarchy 1300001	
		Order Code	Price
1 NO	MCBH-10	1SFA611605R1101	3.33
1 NC	MCBH-01	1SFA611605R1110	3.33
2 NO	MCBH-20	1SFA611605R1102	6.15
2 NC	MCBH-02	1SFA611605R1120	6.15
1 NO + 1 NC	MCBH-11	1SFA611605R1111	6.15
2 NO + 1 NC	MCBH-21	1SFA611605R1112	8.96

Separate holder

Holder for 3 blocks	MCBH-00	1SFA611605R1100	0.53
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Micro switch blocks

1 NO	MCBL-10	1SFA611612R1010	6.29
1 NC	MCBL-01	1SFA611612R1001	6.29

Contact blocks

1 NO	MCB-10	1SFA611610R1001	2.82
1 NC	MCB-01	1SFA611610R1010	2.82

Lamp blocks with integrated LED

24V AC/DC	MLBL-01 ■	1SFA611621R101 1	7.53
110-130V AC	MLBL-04 ■	1SFA611621R104 1	7.31
110-130V DC	MLBL-05 ■	1SFA611621R105 1	7.31
220V DC	MLBL-06 ■	1SFA611621R106 1	7.31
230V AC	MLBL-07 ■	1SFA611621R107 1	7.31

Legend plate holders

Holder black	KA1-8120	1SFA616920R8120	1.00
Inserts without text	KA1-8121	1SFA616920R8121	0.33
Legend plate holder for plastic enclosures	MA6-1060	1SFA611930R1060	0.70
Inserts without text for plastic enclosures	MA6-1061	1SFA611930R1061	1.30

General accessories

Shroud	MA1-8053	1SFA611920R8053	6.07
Mounting tool	MA1-8015	1SFA611920R8015	4.68
Membrane of silicone flush button	KA1-8052	1SFA616920R8052	1.38
Membrane of silicone extended button	KA1-8002	1SFA611920R8002	
Locking nut	MA1-8019	1SFA611920R8019	0.90
Light diffusing lens	KA1-8005	1SFA616920R8005	0.53
Adaptors 30mm black plastic	KA1-8029	1SFA616920R8029	7.30
Protective cover	KA1-8010	1SFA616920R8010	5.76
Spacer	-	SK615516-1	0.43
Spacer for emergency stop	KA1-8045	1SFA616920R8045	0.43

Empty enclosures

Empty Grey Enclosure - 1 Seat		1SFA611811R1000	9.69
Empty Grey Enclosure - 2 Seat		1SFA611812R1000	11.41
Empty Grey Enclosure - 3 Seat		1SFA611813R1000	14.30
Empty Grey Enclosure - 4 Seat		1SFA611814R1000	20.04
Empty Yellow Enclosure - 1 Seat		1SFA611821R1000	7.26

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Pilot Devices - modular 22mm

Accessories

1



LEDs

Type	Product Hierarchy 1300001	
	Order Code	Price
White LED 12V	1SFA616921R2015	9.16
Red LED 24V	1SFA616921R2021	9.16
Green LED 24V	1SFA616921R2022	9.16
Yellow LED 24V	1SFA616921R2023	9.16
Blue LED 24V	1SFA616921R2024	9.16
White LED 24V	1SFA616921R2025	9.16
Red LED 110-130V AC	1SFA616921R2131	9.16
Green LED 110-130V AC	1SFA616921R2132	9.16
Yellow LED 110-130V AC	1SFA616921R2133	9.16
KA2-2134 LED 110V AC	1SFA616921R2134	9.16
White LED 110-130V AC	1SFA616921R2135	9.16
KA2-2142 LED 110V AC/DC	1SFA616921R2142	9.16
White LED 110-130V AC/DC	1SFA616921R2145	9.16
Red LED 230V	1SFA616921R2221	9.16
Green LED 230V	1SFA616921R2222	9.16
Yellow LED 230V	1SFA616921R2223	9.16
Blue LED 230V	1SFA616921R2224	9.16
White LED 230V	1SFA616921R2225	9.16

Filaments

6v Filament Bulb	5911086-11	0.83
12v Filament Bulb	5911086-12	0.83
24v Filament Bulb	5911086-13	0.81
60v Filament Bulb	5911086-14	1.23
130v Filament Bulb	5911086-15	1.90
30v Filament Bulb	5911086-4	0.90
110v Filament Bulb	5911086-7	1.90



Full range of product and technical information place this part number in a search engine and download

1SFC151004C0201

Electronic products and relays



Time relays, CT range 1/46

Three ranges of electronic timers provide timing functions for all applications: the CT-D range with a width of just 17.5 mm; the CT-E range, the ideal solution for serial applications; and the CT-S range that has two different types of connection terminals and is ideally suited for universal use. The CT range has a wide variety of timing functions (from ON or OFF delay to star-delta changeover). The time relays are available with output relays, solid-state outputs and precise direct time adjustment.



Measuring and monitoring, CM range 1/55

State of the Art monitors for single and three-phase systems. Monitoring of: voltage, current, frequency, power factor (motor load), thermistors, temperature, liquid level, insulation resistance, and grid feeding. ABB has one of the world's widest product ranges of measuring and monitoring relays. The CM range is a key product line of the EPR range.



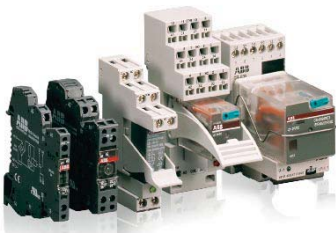
Power supplies, CP range 1/61

Modern power supply units are a vital component in most areas of energy management and automation technology. As your global partner in this area, ABB pays close attention to corresponding requirements. Innovation is the key to the substantial enlargement of our power supply product range. ABB offers four different product lines for single and three-phase supplies, output voltages 5/12/24, and 48 VDC in plastic and metal enclosure, as well as various accessories.



Signal converters, CC range and ILPH 1/64

The ABB serial data converters allow communication to be established between units with different communication standards. In order to assure process continuity, existing systems must be updated consistently or connected to new devices. Serial data enables communication to be established if the communication standard of the existing system and the connected device vary. As well as converting signals, analog signal converters and serial data converters can amplify, filter or separate signals.



Interfaces & optocouplers, CR/R600 1/76

Interface relays and optocouplers are widely used in various industrial applications. As an interface, they link the controller, e.g. PLC (programmable logic controller), PC or field bus systems to the sensor/ actuator level. Here, they have various functions: switching AC or DC loads with different resistive, inductive and capacitive parts, switching voltages from a few mV up to 250 V, switching currents from a few mA up to 16 A, amplification of weak control signals, electrical isolation of control and load circuits, and signal multiplying.



Logic relays, CL range 1/89

CL range logic relays are suitable for small and medium-sized control tasks and can substitute logic wiring quickly and easily. Three different ranges are available: stand alone, expandable and the display systems.



Full range of product and technical information place this part number in a search engine and download
2CDC110004C0206



Timer ranges

1



CT-D

LEDs for status indication

All actual operational states are displayed by front-face LEDs, thus simplifying commissioning and troubleshooting.

Direct reading scales

Direct setting of the time delay without any additional calculation allows accurate time delay adjustment.



CT-E

Connection screws in M3 (pozidrive)

Easy tightening and release of the connection screws using a pozidrive, panhead or crosshead screwdriver.



CT-S

Double-chamber cage connection terminals

Double-chamber cage connection terminals make it possible to connect wires up to $2 \times 2.5 \text{ mm}^2$ ($2 \times 14 \text{ AWG}$), rigid or fine-strand, with or without ferrules. Potential distribution does not require additional terminals.

Time range preselection and fine adjustment

Direct assignment of the preselected time range to the fine adjustment potentiometer scale by multicolor scales.



CT-S

Easy connect technology

Innovative Push-in connection terminals for tool-free installation. The connection has the same connection direction as the double-chamber cage connection terminals.

The CT range includes 103 electronic timers and switching relays with 16 different functions. The electronic timers are divided into three ranges with their individual benefits. A lot of different connection terminals such as screw, chamber,

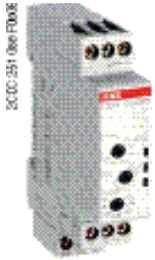
double-chamber cage and push-in connection terminals are available. Furthermore, relay outputs and solid-state outputs are also available.

Timer relays

CT-D



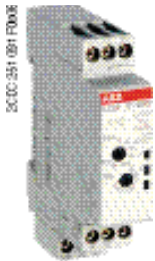
CT-MFD.12



CT-MFD.21



CT-ERD.12



CT-ERD.22



CT-AHD.22



Full range of product and technical information place this part number in a search engine and download
2CDC110004C0206

Type	Rated control supply voltage	Control input	Order Code	Price
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Multifunction timers

CT-MFD: 7 functions ¹⁾, 7 time ranges (0.05 s - 100 h), 1 c/o contact, 2 LEDs

CT-MFD.12	24-48 V DC, 24-240 V AC	•	1SVR500020R0000	50.11
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CT-MFD: 7 functions ¹⁾, 7 time ranges (0.05 s - 100 h), 2 c/o contacts, 2 LEDs

CT-MFD.21	12-240 V AC/DC	•	1SVR500020R1100	60.79
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ON-delay timers

CT-ERD: 7 time ranges (0.05 s - 100 h), 1 c/o contact, 2 LEDs

CT-ERD.12	24-48 V DC, 24-240 V AC		1SVR500100R0000	37.91
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CT-ERD: 7 time ranges (0.05 s - 100 h), 2 c/o contacts, 2 LEDs

CT-ERD.22	24-48 V DC, 24-240 V AC		1SVR500100R0100	74.26
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OFF-delay timers

CT-AHD: 7 time ranges (0.05 s - 100 h), 1 c/o contact, 2 LEDs

CT-AHD.12	24-48 V DC, 24-240 V AC	•	1SVR500110R0000	41.52
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CT-AHD: 7 time ranges (0.05 s - 100 h), 2 c/o contacts, 2 LEDs

CT-AHD.22	24-48 V DC, 24-240 V AC	•	1SVR500110R0100	69.85
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Timer relays

CT-D



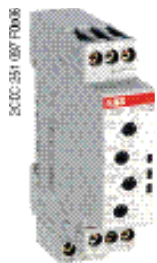
CT-VWD.12



CT-EBD.12



CT-TGD.12



CT-TGD.22

Type	Rated control supply voltage	Control input	Order Code	Price
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Impulse-ON timers

CT-VWD: 7 time ranges (0.05 s - 100 h), 1 c/o contact, 2 LEDs

CT-VWD.12	24-48 V DC, 24-240 V AC		1SVR500130R0000	37.91
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Flasher, starting with ON

CT-EBD: 7 time ranges (0.05 s - 100 h), 1 c/o contact, 2 LEDs

CT-EBD.12	24-48 V DC, 24-240 V AC		1SVR500150R0000	37.91
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Pulse generators

CT-TGD: 2 x 7 time ranges (0.05 s - 100 h)²⁾, 1 c/o contact, 2 LEDs

CT-TGD.12	24-48 V DC, 24-240 V AC	•	1SVR500160R0000	47.24
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CT-TGD: 2 x 7 time ranges (0.05 s - 100 h)²⁾, 2 c/o contacts, 2 LEDs

CT-TGD.22	24-48 V DC, 24-240 V AC	•	1SVR500160R0100	54.06
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Star-delta timers

CT-SAD: 4 time ranges (0.05 s - 10 min), transition time adjustable, 2 n/o contacts, 3 LEDs

CT-SAD.22	24-48 V DC, 24-240 V AC		1SVR500210R0100	63.82
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Full range of product and technical information place this part number in a search engine and download

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Timer relays

CT-E



CT-MFE



CT-ERE



CT-AHE



CT-ARE

Type	Rated control supply voltage	Time range	Control input	Order Code	Price
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Multifunction timer

CT-MFE: 6 functions¹⁾, 8 time ranges (0.05 s - 100 h), 1 c/o contact, 2 LEDs

CT-MFE	24-240 V AC/DC	0.05 s - 100 h	•	1SVR550029R8100	40.08
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ON-delay timers

CT-ERE: 1 c/o contact, 2 LEDs

CT-ERE	24 V AC/DC, 220-240 V AC	0.1-10 s	•	1SVR550107R1100	25.77
		0.3-30 s		1SVR550107R4100	25.77
		3-300 s		1SVR550107R2100	25.77
		0.3-30 min		1SVR550107R5100	25.77
	110-130 V AC	0.1-10 s		1SVR550100R1100	25.77
		0.3-30 s		1SVR550100R4100	25.77
		3-300 s		1SVR550100R2100	25.77
		0.3-30 min		1SVR550100R5100	25.77

OFF-delay timers

CT-AHE: 1 c/o contact, 2 LEDs

CT-AHE	24 V AC/DC	0.1-10 s	•	1SVR550118R1100	38.28
		0.3-30 s		1SVR550118R4100	38.94
		3-300 s		1SVR550118R2100	36.48
	110-130 V AC	0.1-10 s		1SVR550110R1100	38.28
		0.3-30 s		1SVR550110R4100	38.28
		3-300 s		1SVR550110R2100	38.28
	220-240 V AC	0.1-10 s		1SVR550111R1100	36.48
		0.3-30 s		1SVR550111R4100	36.48
		3-300 s		1SVR550111R2100	36.48

CT-ARE: without auxiliary voltage, 1 c/o contact, 1 LED

CT-ARE	24 V AC/DC, 220-240 V AC	0.1-10 s	1SVR550127R1100	40.08
		0.3-30 s	1SVR550127R4100	40.08



Full range of product and technical information place this part number in a search engine and download
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Timer relays

CT-E

1



CT-WVE



CT-AWE



CT-EBE



CT-YDE

Type	Rated control supply voltage	Time range	Control input	Order Code	Price
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Impulse-ON timers

CT-WVE: 1 c/o contact, 2 LEDs

CT-WVE	24 V AC/DC, 220-240 V AC	0.1-10 s		1SVR550137R1100	25.77
		0.3-30 s		1SVR550137R4100	25.77
		3-300 s		1SVR550137R2100	25.77
	110-130 V AC	0.1-10 s		1SVR550130R1100	27.14
		0.3-30 s		1SVR550130R4100	27.14
		3-300 s		1SVR550130R2100	27.14

Impulse-OFF timers

CT-AWE: without auxiliary voltage, 1 c/o contact, 2 LEDs

CT-AWE	24 V AC/DC	0.05-1 s		1SVR550158R3100	36.48
	110-130 V AC			1SVR550150R3100	36.48
	220-240 V AC			1SVR550151R3100	36.48

CT-AWE: with auxiliary voltage, 1 c/o contact, 2 LEDs

CT-AWE	24 V AC/DC	0.1-10 s	•	1SVR550148R1100	36.48
		0.3-30 s		1SVR550148R4100	36.48
		3-300 s		1SVR550148R2100	36.48
	110-130 V AC	0.1-10 s		1SVR550140R1100	36.48
		0.3-30 s		1SVR550140R4100	36.48
		3-300 s		1SVR550140R2100	36.48
	220-240 V AC	0.1-10 s		1SVR550141R1100	36.48
		0.3-30 s		1SVR550141R4100	36.48
		3-300 s		1SVR550141R2100	36.48

Flasher, starting with OFF

CT-EBE: with symmetrical ON & OFF times, 1 c/o contact, 2 LEDs

CT-EBE	24 V AC/DC, 220-240 V AC	0.1-10 s		1SVR550167R1100	25.77
	110-130 V AC			1SVR550160R1100	25.77

Star-delta timers

CT-YDE: ON-delayed, OFF-delayed without auxiliary voltage, 1 c/o contact, 2 LEDs

CT-YDE	24 V AC/DC, 220-240 V AC	0.1-10 s		1SVR550207R1100	25.77
		0.3-30 s		1SVR550207R4100	25.77
		3-300 s		1SVR550207R2100	25.77
	110-130 V AC	0.1-10 s		1SVR550200R1100	28.00
		0.3-30 s		1SVR550200R4100	25.77
		3-300 s		1SVR550200R2100	31.18



Full range of product and technical information place this part number in a search engine and download
2CDC110004C0206

Timer relays

CT-E



CT-SDE



CT-MKE



CT-EKE



CT-AKE

Type	Rated control supply voltage	Time range	Control input	Order Code	Price
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CT-SDE: ON-delayed with fixed transition time, 1 n/c contact, 1 n/o contact, internally wired, 2 LEDs

CT-SDE	24 V AC/DC, 220-240 V AC	0.3-30 s		1SVR550217R4100	24.10
	110-130 V AC			1SVR550210R4100	25.77
	380-415 V AC			1SVR550212R4100	24.10

Solid-state output / contactless

Multifunction timer

CT-MKE: 4 functions¹⁾, solid-state output, functions and time range selection via external jumpers, 1 LED

CT-MKE	24-240 V AC/DC	0.1-10 s, 3-300 s		1SVR550019R0000	35.06
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ON-delay timers

CT-EKE: solid-state output, 1 LED

CT-EKE	24-240 V AC/DC	0.1-10 s		1SVR550509R1000	POA
		0.3-30 s		1SVR550509R4000	25.77
		3-300 s		1SVR550509R2000	28.00

OFF-delay timers

CT-AKE: solid-state output, 1 LED

CT-AKE	24-240 V AC	0.1-10 s		1SVR550519R1000	36.14
		0.3-30 s		1SVR550519R4000	36.14
		3-300 s		1SVR550519R2000	36.14

Notice:

CT...KE are solid-state timers with thyristor output for 2-wire applications. They are connected directly in series with the control coil of contactors or relays. Voltage should not be applied without a load connected, because there is no current limiting in the unit.



Full range of product and technical information place this part number in a search engine and download

2CDC110004C0206



The measuring monitoring and timer relays with innovative connection technologies

**New
S CLASS**



1

The new housing provides two different connection possibilities: Double-chamber cage connection screw terminals or push-in connection terminals

General facts

ABB have developed a totally new housing for all time relays and measuring & monitoring relays in S range with innovative connection technologies. In form and design the new housing meets both: ABB's latest design standards and EPR's requirements

for a sophisticated product. All devices are available with either innovative Push-in Terminals or State of the Art Double-Chamber Cage Connection Screw Terminals.

Easy Connect Technology

Thanks to the innovative new Push-in Terminals, the devices with Easy Connect Technology can be wired much more quickly and easily – without the need of tools. For example, rigid or flexible wires with wire-end ferrules can be connected without the need for a tool. Even flexible wires without ferrules can be directly connected, here the cage must be opened before wire insertion. To release the wires the cages have to be opened with a tool.

The Push-in Terminal is suitable for the following wire sizes: rigid or fine-strand with wire-end ferrule, 1 x 0.5...1.5 mm² or 2 x 0.5...1.5 mm² / 1 x 20...16 AWG or 2 x 20...16 AWG. These Push-in Terminals are completely secure, and are the perfect solution for high vibration environments.

Double-Chamber Cage Connection Screw Terminals

The screw terminals can be connected with two wires with different wire diameters up to 2,5 mm². According to IEC/EN 60947-1 two rigid or fine-strand wires with ferrules up to 2,5 mm² (AWG14) can be used.

Flexibility

Both solutions, Double-Chamber Cage Connection Terminals and Push-in Terminals, have exactly the same design and size. Both versions can thus be interchanged at any time or positioned alongside each other in a switchboard. With this new housing ABB offers the world wide first complete range of industrial products with Push-in Terminals.

Other Features

Snap on housing - Tool-less mounting and removal on / off the DIN rail. Housing meets UL94 VO classifications. Abrasion resistant terminal and front face marking. Available now in Timer range. Coming soon in Measuring and Monitoring product range.

Timer relays

CT-S



CT-MVS.21



CT-MXS.22



CT-MFS.21



CT-MBS.22



CT-WBS.22



Full range of product and technical information place this part number in a search engine and download
2CDC110004C0206

Type	Rated control supply voltage	Control input	Remote potentiometer connection	2nd c/o cont. selectable as inst. contact	Order Code	Price
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Multifunction timers

CT-MVS: 11 functions ¹⁾, 10 time ranges (0.05 s- 300 h), 2 c/o contacts, 3 LEDs – 40 °C

CT-MVS.21S	24-240 V AC/DC	■	1x	○	1SVR730020R0200	80.36
CT-MVS.21P					1SVR740020R0200	82.76

CT-MVS: 11 functions ¹⁾, 10 time ranges (0.05 s- 300 h), 2 c/o contacts, 2 LEDs

CT-MVS.22S	24-48 V DC	■			1SVR730020R3300	69.94
CT-MVS.22P	24-240 V AC				1SVR740020R3300	72.04
CT-MVS.23S	380-440 V AC				1SVR730021R2300	77.37
CT-MVS.23P					1SVR740021R2300	79.68

CT-MVS: 10 functions ²⁾, 10 time ranges (0.05 s- 300 h), 1 c/o contact, 2 LEDs

CT-MVS.12S	24-48 V DC	■			1SVR730020R3100	62.50
CT-MVS.12P	24-240 V AC				1SVR740020R3100	64.38

CT-MXS: 5 functions ³⁾, 2 x 10 time ranges (0.05 s- 300 h), 2 c/o contacts, 2 LEDs

CT-MXS.22S	24-48 V DC	■	2x		1SVR730030R3300	80.36
CT-MXS.22P	24-240 V AC				1SVR740030R3300	82.76

CT-MFS: 10 functions ⁴⁾, 10 time ranges (0.05 s- 300 h), 2 c/o contacts, 3 LEDs – 40 °C

CT-MFS.21S	24-48 V DC	□□	1x	•	1SVR730010R0200	80.36
CT-MFS.21P	24-240 V AC				1SVR740010R0200	82.76

CT-MBS: 10 functions ⁴⁾, 10 time ranges (0.05 s- 300 h), 2 c/o contacts, 3 LEDs

CT-MBS.22S	24-48 V DC	□	1x	•	1SVR730010R3200	69.94
CT-MBS.22P	24-240 V AC				1SVR740010R3200	72.03

Impulse and flasher timer

CT-WBS: 7 functions ⁵⁾, 10 time ranges (0.05 s- 300 h), 2 c/o contacts, 2 LEDs

CT-WBS.22S	24-48 V DC				1SVR730040R3300	51.72
CT-WBS.22P	24-240 V AC				1SVR740040R3300	53.26

- Control input with voltage-related triggering
- Control input with volt-free triggering

¹⁾ Functions: ON-delay, OFF-delay with auxiliary voltage, Impulse-ON, Impulse-OFF with auxiliary voltage, Symmetrical ON- and OFF-delay, Flasher starting with ON or OFF, Star-delta change-over with impulse, Pulse former, Accumulative ON-delay, ON/OFF-function

²⁾ Functions: ON-delay, OFF-delay with auxiliary voltage, Impulse-ON, Impulse-OFF with auxiliary voltage, Symmetrical ON- and OFF-delay, Flasher starting with ON or OFF, Pulse former, Accumulative ON-delay, ON/OFF-function

³⁾ Functions: Select function via DIP switches behind the marker label on the front of the unit, asymmetrical ON- and OFF-delay, Impulse-ON/OFF, Pulse generator starting with ON or OFF, Single pulse generator, ON/OFF-function

⁴⁾ Functions: ON-delay, OFF-delay with auxiliary voltage, Impulse-ON, Impulse-OFF with auxiliary voltage, Symmetrical ON- and OFF-delay, Flasher starting with ON, Flasher starting with OFF, Star-delta change-over with impulse, Pulse former, ON/OFF-function

⁵⁾ Functions: Flasher starting with ON, Flasher starting with OFF, Impulse-ON, ON-delay, fixed impulse with adjustable time delay, Adjustable impulse with fixed time delay, ON/OFF-function

S - Screw connection

P - Easy connect - Push in connection

Timer relays

CT-S

1



CT-ERS.21



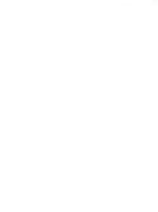
CT-ERS.12S



CT-APS.12S



CT-AHS.22S



CT-SDS.22S

Type	Rated control supply voltage	Control input	Remote potentiometer connection	2nd c/o cont. selectable as inst. contact	Order Code	Price
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ON-delay timers

CT-ERS: 10 time ranges (0.05 s- 300 h), 2 c/o contacts, 2 LEDs -40 °C

CT-ERS.21S	24-240 V AC/DC				1SVR730100R0300	56.93
CT-ERS.21P					1SVR740100R0300	58.65
CT-ERS.22S	24-48 V DC				1SVR730100R3300	49.48
CT-ERS.22P	24-240 V AC				1SVR740100R3300	50.97

CT-ERS: 10 time ranges (0.05 s- 300 h), 1 c/o contact, 2 LEDs

CT-ERS.12S	24-48 V DC				1SVR730100R3100	42.04
CT-ERS.12P	24-240 V AC				1SVR740100R3100	43.31

OFF-delay timers

CT-APS: 10 time ranges (0.05 s- 300 h), 2 c/o contacts, 2 LEDs -40 °C

CT-APS.21S	24-240 V AC/DC	■			1SVR730180R0300	64.36
CT-APS.21P					1SVR740180R0300	64.99
CT-APS.22S	24-48 V DC	■			1SVR730180R3300	56.93
CT-APS.22P	24-240 V AC				1SVR740180R3300	57.49

CT-APS: 10 time ranges (0.05 s- 300 h), 1 c/o contact, 2 LEDs

CT-APS.12S	24-48 V DC	■			1SVR730180R3100	50.98
CT-APS.12P	24-240 V AC				1SVR740180R3100	52.51

CT-AHS: 10 time ranges (0.05 s- 300 h), 2 c/o contacts, 2 LEDs

CT-AHS.22S	24-48 V DC	□			1SVR730110R3300	56.93
CT-AHS.22P	24-240 V AC				1SVR740110R3300	58.65

CT-ARS: without auxiliary voltage, 7 time ranges (0.05 s- 10 min), 1 c/o contact, 1 LED

CT-ARS.11S	24-240 V AC/DC				1SVR730120R3300	81.84
CT-ARS.11P					1SVR740120R3300	84.29

Star-delta timers

CT-SDS: 7 time ranges (0.05 s- 10 min), 50 ms transition time, 2 n/o contacts, 3 LEDs

CT-SDS.22S	24-48 V DC				1SVR730210R3300	47.99
CT-SDS.22P	24-240 V AC				1SVR740210R3300	49.43
CT-SDS.23S	380-440 V AC				1SVR730211R2300	55.44
CT-SDS.23P					1SVR740211R2300	57.11

■ Control input with voltage-related triggering

□ Control input with volt-free triggering

S - Screw connection

P - Easy connect - Push in connection



Full range of product and technical information place this part number in a search engine and download

2CDC110004C0206

Measuring & monitoring relays

Single phase current & voltage monitors



CM-SRS.1

Type	Order Code	Priced
CM-SFS.11	1SVR430840R0200	129.99
CM-SFS.11	1SVR430841R0200	109.22
CM-SFS.11	1SVR430841R1200	109.22
CM-SFS.11	1SVR430840R0300	129.99
CM-SFS.11	1SVR430841R0300	POA
CM-SFS.11	1SVR430841R1300	120.96
CM-SFS.11	1SVR430840R0400	141.72
CM-SFS.11	1SVR430841R0400	POA
CM-SFS.11	1SVR430841R1400	120.96
CM-SFS.11	1SVR430840R0500	141.72
CM-SFS.11	1SVR430841R0500	120.96
CM-SFS.11	1SVR430841R1500	120.96
CM-SFS.11	1SVR430840R0600	153.46
CM-SFS.11	1SVR430840R0700	153.46
CM-SFS.11	1SVR430760R0400	153.46
CM-SFS.11	1SVR430760R0500	153.46
CM-SFS.11		
CM-SFS.11	1SVR430830R0300	130.00
CM-SFS.11	1SVR430831R0300	POA
CM-SFS.11	1SVR430831R1300	109.22
CM-SFS.11	1SVR430830R0400	141.72
CM-SFS.11	1SVR430831R0400	POA
CM-SFS.11	1SVR430831R1400	120.96
CM-SFS.11	1SVR430830R0500	153.46
CM-SFS.11	1SVR430750R0400	153.46

Monitoring function																								
Over- or undercurrent	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
Windows current monitoring																						■	■	
Over- or undervoltage																							■	■
Windows voltage monitoring																								■

Features																							
Latching																						sel	sel
Open circuit or closed circuit principle																						sel	sel

Timing functions for tripping delay																								
ON delay, 0 or 0,1 - 30 s																								
ON or OFF delay																								

Output																								
c/o contact	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	1	1	1	2	2	2	2



Full range of product and technical information place this part number in a search engine and download
2CDC110004C0206

Measuring & monitoring relays

Insulation & motor load monitors



CM-IWS

Type	Order Code	Price
CM-IWS.2	1SVR630670R0200	134.57
CM-IWS.1	1SVR630660R0100	192.10
CM-IWN.1	1SVR650660R0200	417.86
CM-IVN	1SVR650669R9400	241.34



CM-LWN

Type	Order Code	Price
CM-LWN	1SVR450335R0000	150.11
CM-LWN	1SVR450330R0000	130.38
CM-LWN	1SVR450331R0000	POA
CM-LWN	1SVR450332R0000	130.38
CM-LWN	1SVR450334R0000	POA
CM-LWN	1SVR450335R0100	159.13
CM-LWN	1SVR450330R0100	POA
CM-LWN	1SVR450331R0100	139.40
CM-LWN	1SVR450332R0100	139.40
CM-LWN	1SVR450334R0100	POA

Rated control supply voltage U_c

24 - 240 VAC/DC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Measuring voltages

250 V AC (L-PE)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
400 V AC (L-PE)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
690 V AC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
300 V DC (L-PE)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
600 V DC (L-PE)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1000 V DC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Measuring range

1 - 100 kΩ	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 - 200 kΩ	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Output contacts

1 c/o	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1 x 2 c/o or 2 x 1 c/o	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Working principle

open circuit principle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
open or closed principle adjustable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Test

Front face button or control input	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Reset

Front face button or control input	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fault storage / latching configurable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Non voltage storage configurable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interrupted wire detection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Threshold values configurable	1	1	2	
Coupling unit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Rated control supply voltage U_c

24-240 V AC/DC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Measuring voltages

110 - 130 V AC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
220 - 240 V AC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
380 - 440 V AC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
480 - 500 V AC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Voltage range (Phase to phase)

110- 500 V	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Current range

0.5 - 5 A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 - 20 A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Frequency range

50/60 Hz	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DC or 15 - 400 Hz	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Suitable for monitoring

Single-phase mains	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Three-phase mains	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Monitoring function

Motor load // cos Phi	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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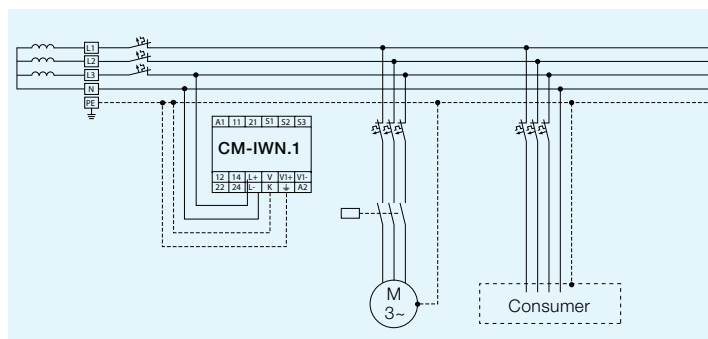
Timing functions

Start up delay (on delay)	adj	adj	adj	adj	adj	adj	adj	adj	adj	adj	adj
Response delay	adj	adj	adj	adj	adj	adj	adj	adj	adj	adj	adj

Output contacts

2 x 1 c/o	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Insulation monitors for unearthed supply systems (IT-Systems)



Measuring & monitoring relays

Motor protection - Thermistor relays

1



CM-MSE

Type	Order Code	Price
CM-MSE	1SVR55080FR9300	37.78
CM-MSE	1SVR55080FR9300	37.78
CM-MSE	1SVR55080FR9300	37.78
CM-MSE	1SVR43080FR1100	43.23
CM-MSE	1SVR43080FR1100	43.23
CM-MSE	1SVR43081FR9300	46.79
CM-MSE	1SVR43081FR9300	46.79
CM-MSE	1SVR43081FR9300	46.79
CM-MSE	1SVR43081FR1300	46.79
CM-MSE	1SVR43071FR9300	49.52
CM-MSE	1SVR43071FR9300	49.52
CM-MSE	1SVR43071FR1300	49.52
CM-MSE	1SVR43071FR2300	56.68
CM-MSE	1SVR43072FR0400	82.73
CM-MSE	1SVR43072FR0300	87.62
CM-MSE	1SVR43071FR0200	107.90
CM-MSE	1SVR43072FR0500	117.77
CM-MSE	1SVR450025FR100	161.84

Rated control supply voltage U_c

24 - 240 V AC/DC																		■	■	■	■	■	
24 V AC/DC																							
24 V AC	■																						
110 - 130 V AC		■																					
220 - 240 V AC			■																				
380 - 440 V AC				■																			

Rated frequency

50/60 Hz	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
15 - 400 Hz																						■	■

Measuring Circuits

No of measuring/sensor circuits	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	6
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Monitoring Functions

Wire break monitoring	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Short circuit detection																							
Non-volatile fault storage																							
Auto reset	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Manual reset																							
Remote reset																							
Test button																							

Output contacts

1 c/o					1	1																	
1 n/o	1	1	1																				
2 c/o																							
1 n/o + 1 n/c																							

Temperature sensor C011, standard version acc. to DIN 44081

Type	Rated response temperature T_{NF}	Color coding	Order Code	Price
C011-70	70 °C	white-brown	GHC0110003R0001	POA
C011-80	80 °C	white-white	GHC0110003R0002	POA
C011-90	90 °C	green-green	GHC0110003R0003	POA
C011-100	100 °C	red-red	GHC0110003R0004	POA
C011-110	110 °C	brown-brown	GHC0110003R0005	POA
C011-120	120 °C	gray-gray	GHC0110003R0006	POA
C011-130	130 °C	blue-blue	GHC0110003R0007	POA
C011-140	140 °C	white-blue	GHC0110003R0011	POA
C011-150	150 °C	black-black	GHC0110003R0008	POA
C011-160	160 °C	blue-red	GHC0110003R0009	POA
C011-170	170 °C	white-green	GHC0110003R0010	POA

Triple temperature sensor C011-3

Type	Rated response temperature T_{NF}	Color coding	Order Code	Price
C011-3-150	150 °C	black-black	GHC0110033R0008	POA

Measuring & monitoring relays

Liquid level monitoring



CM-ENE MIN

Type	Order Code	Price
CM-ENE MIN	1SVR550855R9500	44.70
CM-ENE MIN	1SVR550850R9500	44.70
CM-ENE MIN	1SVR550851R9500	44.70
CM-ENE MAX	1SVR550855R9400	POA
CM-ENE MAX	1SVR550855R9400	POA
CM-ENE MAX	1SVR550851R9400	44.94
CM-ENS	1SVR430851R9100	59.40
CM-ENS	1SVR430851R0100	59.40
CM-ENS	1SVR430851R1100	59.40
CM-ENS	1SVR430851R2100	65.87
CM-ENS UP/DOWN	1SVR430851R9200	64.71
CM-ENS UP/DOWN	1SVR430851R0200	64.71
CM-ENS UP/DOWN	1SVR430851R1200	64.71
CM-ENN	1SVR450055R0000	112.32
CM-ENN	1SVR450059R0000	91.85
CM-ENN	1SVR450050R0000	88.05
CM-ENN	1SVR450051R0000	91.85
CM-ENN	1SVR450052R0000	99.24
CM-ENN UP/DOWN	1SVR450059R0100	POA
CM-ENN UP/DOWN	1SVR450050R0100	119.75
CM-ENN UP/DOWN	1SVR450051R0100	125.36
CM-ENN UP/DOWN	1SVR450052R0100	126.30

Rated control supply voltage U_c

24 - 240 V AC/DC																				
24 V AC	■			■		■		■		■		■						■		
110 - 130 V AC		■			■					■										■
220 - 240 V AC			■			■					■									■
380 - 415 V AC											■									■

Sensor circuits

No of electrodes (including ground reference)		2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	5	5
---	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Response sensitivity

0 - 100 kOhm	■	■	■	■	■																
5 - 100 kOhm							adj	adj	adj	adj	adj	adj						adj	adj	adj	adj
250 Ohm - 5 kOhm													adj	adj	adj	adj	adj				
2,5 - 50 kOhm													adj	adj	adj	adj	adj				
25 - 500 kOhm													adj	adj	adj	adj	adj				

Monitoring function

Dry-running protection	■	■	■																		
Overflow protection				■	■	■															
Liquide level control							■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

Operating principle

Open circuit principle	■	■	■			■	■	■	■				■	■	■	■	■				
Closed circuit principle				■	■	■															
Open or closed circuit principle												sel	sel	sel				sel	sel	sel	sel

Output contacts

n/o	1	1	1	1	1	1																	
n/c																			2	2	2	2	
c/o							1	1	1	1	1	1	1	1	2	2	2	2	2	1	1	1	1

Accessories – electrodes

Type	Description	Order Code	Price
CM-KH-3	Compact support for 3 bar electrodes	1SVR450056R6000	72.79
CM-AH-3	Distance plate for 3 bar electrodes	1SVR450056R7000	8.07
CM-GM-1	Counter nut for 1" thread	1SVR450056R8000	8.07

Screw-in bar electrodes / Suspension electrode

CM-SE-300	300 mm	1SVR450056R0000	7.72
CM-SE-600	600 mm	1SVR450056R0100	7.48
CM-SE-1000	1000 mm	1SVR450056R0200	9.52

Measuring & monitoring Accessories

1



CM-CT

Plug-in current transformers CM-CT

- Without primary conductor though with foot angle, insulating protective cap and bar fastening screws
- Primary / rated current from 50 A to 600 A
- Secondary current of 1 A or 5 A
- Class 1

Secondary current 1 A

Type	Rated primary current	Burden class	Order Code	Price
CM-CT 50/1	50 A	1 VA/1	1SVR450116R1000	30.69
CM-CT 75/1	75 A	1.5 VA/1	1SVR450116R1100	30.69
CM-CT 100/1	100 A	2.5 VA/1	1SVR450116R1200	30.69
CM-CT 150/1	150 A		1SVR450116R1300	30.69
CM-CT 200/1	200 A		1SVR450116R1400	30.69
CM-CT 300/1	300 A	5 VA/1	1SVR450117R1100	29.28
CM-CT 400/1	400 A		1SVR450117R1200	30.69
CM-CT 500/1	500 A		1SVR450117R1300	30.69
CM-CT 600/1	600 A		1SVR450117R1400	30.69

Sealable transparent cover

Type	For type	Width mm	Order Code	Price
COV.01	CM-S	22.5	1SVR430005R0100	7.52

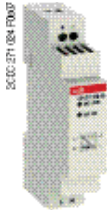


Full range of product and technical information place this part number in a search engine and download

2CDC110004C0206

Primary switch mode power supplies

CP-D and CP-E



CP-D 12/0.83,
CP-D 24/0.42



CP-D 12/2.1
CP-D 24/1.3



CP-E 5/3.0



CP-E 24/5.0



CP-RUD



Full range of product and technical information place this part number in a search engine and download
2CDC110004C0206

CP-D range

Type	Input voltage range	Rated output voltage / current	Order Code	Price
CP-D 12/0.83	90-264 V AC/ 120-370 V DC	12 V DC /0.83 A	1SVR427041R1000	60.23
CP-D 12/2.1	90-264 V AC/ 120-370 V DC	12 V DC /2.1 A	1SVR427043R1200	72.26

CP-D 24/0.42	90-264 V AC/ 120-370 V DC	24 V DC /0.42 A	1SVR427041R0000	55.19
CP-D 24/1.3	90-264 V AC/ 120-370 V DC	24 V DC /1.3 A	1SVR427043R0100	65.23
CP-D 24/2.5	90-264 V AC/ 120-370 V DC	24 V DC /2.5 A	1SVR427044R0200	82.27
CP-D 24/4.2	90-264 V AC/ 120-370 V DC	24 V DC /4.2 A	1SVR427045R0400	110.39

CP-E range

Type	Input voltage range	Rated output voltage / current	Order Code	Price
CP-E 5/3.0	90-265 V AC/ 120-370 V DC	5 V DC /3 A	1SVR427033R3000	64.15

CP-E 12/2.5	85-264 V AC/ 90-375 V DC	12 V DC /2.5 A	1SVR427032R1000	64.15
CP-E 12/10.0	90-132 V AC, 186-264 V AC/ 210-370 V DC	12 V DC /10 A	1SVR427035R1000	115.92

CP-E 24/0.75	90-265 V AC/ 120-370 V DC	24 V DC /0.75 A	1SVR427030R0000	51.77
CP-E 24/1.25	85-264 V AC/ 90-375 V DC	24 V DC /1.25 A	1SVR427031R0000	56.27
CP-E 24/2.5	85-264 V AC/ 90-375 V DC	24 V DC /2.5 A	1SVR427032R0000	70.91
CP-E 24/5.0	90-132 V AC, 186-264 V AC/ 210-370 V DC	24 V DC /5 A	1SVR427034R0000	103.53
CP-E 24/10.0	93-132 V AC, 186-264 V AC/ 210-370 V DC	24 V DC /10 A	1SVR427035R0000	146.31
CP-E 24/20.0	90-264 V AC/ 120-370 V DC	24 V DC /20 A	1SVR427036R0000	200.32

CP-E 48/0.62	85-264 V AC/ 90-375 V DC	48 V DC / 0.625 A	1SVR427030R2000	67.52
CP-E 48/1.25	85-264 V AC/ 90-375 V DC	48 V DC /1.25 A	1SVR427031R2000	85.53
CP-E 48/5.0	93-132 V AC, 186-264 V AC/ 210-370 V DC	48 V DC /5 A	1SVR427034R2000	174.44
CP-E 48/10.0	90-264 V AC/ 120-370 V DC	48 V DC /10 A	1SVR427035R2000	238.59

Redundancy units

for decoupling of two CP-E power supply units

Type	Suitable for decoupling of CP-E power supply units	Order Code	Price
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CP-RUD: 2 inputs each up to 2.5 A and 1 output up to 5 A

CP-RUD	< 35 V and < 5 A	1SVR423418R9000	48.48
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CP-A RU: 2 inputs each up to 20 A and 1 output up to 40 A

CP-A RU	< 40 V and > 5 A	1SVR427071R0000	85.91
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Primary switch mode power supplies

CP-T, CP-S and CP-C

1



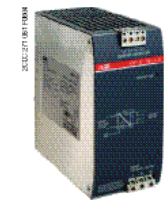
CP-T 24/5.0



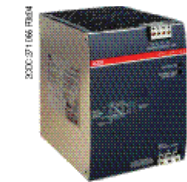
CP-T 24/10.0
CP-T 48/5.0



CP-A RU



CP-S 24/5.0



CP-C 24/10.0



CP-A CM



Full range of product and technical information place this part number in a search engine and download
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CP-T range

Type	Three Phase Input voltage range	Rated output voltage / current	Order Code	Price
CP-T 24/5.0	340-575 V AC/ 480-820 V DC	24 V DC /5 A	1SVR427054R0000	142.26
CP-T 24/10.0	340-575 V AC/ 480-820 V DC	24 V DC /10 A	1SVR427055R0000	170.56
CP-T 24/20.0	340-575 V AC/ 480-820 V DC	24 V DC /20 A	1SVR427056R0000	210.60
CP-T 24/40.0	340-575 V AC/ 480-820 V DC	24 V DC /40 A	1SVR427057R0000	339.66
CP-T 48/5.0	340-575 V AC/480-820 V DC	48 V DC /5 A	1SVR427054R2000	207.38
CP-T 48/10.0	340-575 V AC/ 480-820 V DC	48 V DC /10 A	1SVR427055R2000	255.84
CP-T 48/20.0	340-575 V AC/ 480-820 V DC	48 V DC /20 A	1SVR427056R2000	414.96

Type	Input voltage range	Rated output voltage / current	Order Code	Price
CP-S range				
CP-S 24/5.0	85-264 V AC/ 110-350 V DC	24 V DC /5 A	1SVR427014R0000	119.30
CP-S 24/10.0	85-132 V AC, 184-264 V AC/ 220-350 V DC	24 V DC /10 A	1SVR427015R0100	177.81
CP-S 24/20.0	85-132 V AC, 184-264 V AC/ 220-350 V DC	24 V DC / 20 A	1SVR427016R0100	275.72

CP-C range

CP-C 24/5.0	85-264 V AC/ 110-350 V DC	24 V DC /5 A	1SVR427024R0000	128.29
CP-C 24/10.0	85-264 V AC/ 110-350 V DC	24 V DC /10 A	1SVR427025R0000	195.82
CP-C 24/20.0	85-264 V AC/ 110-350 V DC	24 V DC / 20 A	1SVR427026R0000	303.86

Accessories

Type	Description	Order Code	Price
Accessories for CP-C range			
CP-C MM	Messaging module	1SVR427081R0000	66.71
CP-A CM	Control module	1SVR427075R0000	36.62

Redundancy unit

Type	Suitable for decoupling CP-T, CP-S, CP-E, CP-C	Order Code	Price
CP-A-RU	2 inputs each up to 20 A and 1 output up to 40 A	1SVR427071R0000	85.91

Ultra capacitor based buffer modules

CP-B

Product selection table

		CP-B 24/3.0	CP-B 24/10.0	CP-B 24/20.0	CP-B EXT.2
Order Code		1SVR427060R0300	1SVR427060R1000	1SVR427060R2000	1SVR427065R0000
Price		POA	POA	POA	POA
Rated input voltage		24 V DC	24 V DC	24 V DC	–
Rated current		3 A DC	10 A DC	20 A DC	–
Energy storage (min.)		1.000 Ws	10.000 Ws	8.000 Ws	2.000 Ws
Typical charging time at load current	100 %	65 s	120 s	68 s	
	0 %	56 s	82 s	62 s	
Typical buffer time ¹⁾ at load current	100 %	14 s	40 s	15 s	
	50 %	28 s	80 s	30 s	
	25 %	74 s	140 s	60 s	
	10 %	148 s	380 s	150 s	



Dimensions

Width	60.00 mm	127.00 mm	84.00 mm	60.00 mm
Height	92.50 mm	163.00 mm	192.00 mm	92.50 mm
Depth	116.00 mm	150.00 mm	198.00 mm	116.00 mm



CP-B 24/3.0



CP-B 24/10.0

$${}^1) \text{ buffering time} = \frac{\text{energy storage} \times 0.9}{\text{current} \times \text{output voltage}}$$

Type	Rated input voltage	Rated current	Order Code	Price
CP-B range				
CP-B 24/3.0	24 V DC	3 A DC	1SVR427060R0300	POA
CP-B 24/10.0	24 V DC	10 A DC	1SVR427060R1000	POA
CP-B 24/20.0	24 V DC	20 A DC	1SVR427060R2000	POA
CP-B EXT.2	–	–	1SVR427060R2000	POA



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Analog standard signal converters

Application, approvals & marks

1

Applications for analog signal processing and correct solution using CC-E and CC-U converters

Nearly every process includes a control system that receives data by means of analog signals and then evaluates the data and sets the respective parameters correspondingly.

When transmitting analog signals numerous problems may arise which can disturb or even block an ideal behavior of the process.

Below we have listed some processing problems together with the respective solutions to solve these problems:

Signal conversion

Sometimes the available signals cannot be processed by the controller or the actuator. In this case, signal converters are required to convert the input signal (or different input signals) to the desired output signal.

Signal amplification

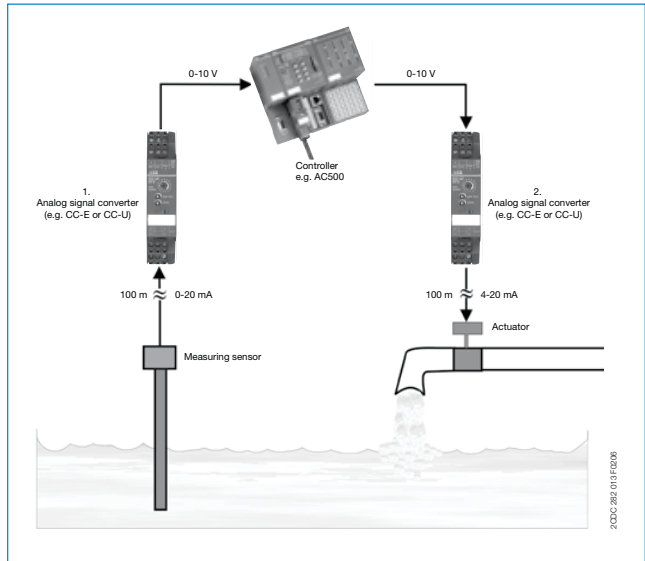
If long lines or high burdens have to be operated, it may be necessary to amplify the signal. CC analog signal converters require only low input power and provide high output power.

Thus, there are no restrictions for the converter's position on the line, i.e. it can be used

- for signal refreshing ① at the end of the line (low input power)
- or for signal amplification ② at the beginning of the line (high output power).

Signal filtering

Particularly on long lines or in rough industrial environments the signals are exposed to high electromagnetic interferences. The frequency of the coupled interference signals may be in the range of the common mains frequency (50 Hz) or even much higher (in case of frequency converters). According to the specific requirements, analog signal converters are available which provide reliable suppression of those interferences by means of an input low-pass filter.



Signal separation

Protection against overvoltage

The increased use of micro-electronics make controls much more sensitive against overvoltages, resulting from lightning discharges or switching processes. Suppression diodes are incorporated in the input of the CC analog signal converters which enable the converters to arrest overvoltages with low energy level (resulting from switching processes) by themselves. The products furthermore provide electrical isolation between input, output and supply circuit for protection of the controller connected to the output.

Protection against ground loops

If components are used which refer to ground, the measuring signals can be falsified by a so-called ground loop. In this case, certain parts of the signal are transmitted via earth and not via the analog transmission line, thus causing incorrect evaluation of the signal. The electrical isolation between the input and the output disconnects these ground loops and thus enables correct signal transmission.

Approvals		CC-E/STD	CC-E/I	CC-U/STD	CC-U/STDR	CC-E/RTD	CC-U/RTD	CC-U/RTDR	CC-E/TC	CC-U/TC	CC-U/TCR	CC-E/I	CC-E _{IL} /LPO	CC-U/I	CC-U/V	■ existing ▲ existing for some devices □ pending
	UL 508, CAN/CSA C22.2 No.14	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
	UL 1604 (Class I, Div 2, hazardous locations), CAN/CSA C22.2 No.213	▲		■		▲	■		▲	■		▲		■	■	
	CB scheme				■			■			■					
	CCC				■			■			■					
Marks																
	CE	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	C-Tick	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

Analog standard signal converters

CC-E/STD, CC-E x/x



CC-E/STD



CC-E V/V

- ① U: green LED - supply voltage
- ② Gain adjustment
- ③ Offset adjustment
- ④ DIP switch for input and output configuration (only available on universal devices)

¹⁾ 1604 Class I, Div.2 (universal device)

CC-E/STD analog signal converter with 3-way electrical isolation

- 2 universally configurable devices (type CC-E/STD)
- 2x10 single-function devices "Plug and Work", no adjustment of single-function devices required

Type	Input signal	Output signal	Order Code	Price
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Supply voltage: 24 V DC universal

CC-E/STD	0-5 V, 0-10 V 0-20 mA, 4-20 mA	0-5 V, 0-10 V 0-20 mA, 4-20 mA	1SVR011700R0000 ¹⁾	157.42
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single-function

CC-E V/V	0-10 V	0-10 V	1SVR011710R2100	141.69
CC-E V/I		0-20 mA	1SVR011711R1600	141.69
		4-20 mA	1SVR011712R1700	141.69

CC-E V/V	0-20 mA	0-10 V	1SVR011713R1000	141.69
CC-E V/I		0-20 mA	1SVR011714R1100	141.69
		4-20 mA	1SVR011715R1200	141.69

CC-E V/V	4-20 mA	0-10 V	1SVR011719R2600	141.69
CC-E V/I		0-20 mA	1SVR011719R2600	141.69
		4-20 mA	1SVR011719R2600	141.69

CC-E V/V	-10... +10 V	-10... +10 V	1SVR011719R2600	141.69
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Supply voltage: 110-240 V AC universal

CC-E/STD	0-5 V, 0-10 V 0-20 mA, 4-20 mA	0-5 V, 0-10 V 0-20 mA, 4-20 mA	1SVR011705R2100	157.42
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single-function

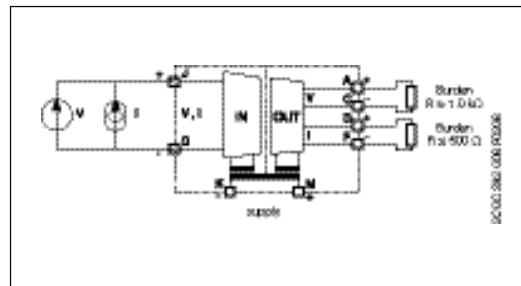
CC-E V/V	0-10 V	0-10 V	1SVR011720R2300	116.04
CC-E V/I		0-20 mA	1SVR011721R1000	141.69
		4-20 mA	1SVR011722R1100	141.69

CC-E V/V	0-20 mA	0-10 V	1SVR011723R1200	141.69
CC-E V/I		0-20 mA	1SVR011724R1300	141.69
		4-20 mA	1SVR011725R1400	141.69

CC-E V/V	4-20 mA	0-10 V	1SVR011726R1500	141.69
CC-E V/I		0-20 mA	1SVR011727R1600	141.69
		4-20 mA	1SVR011728R2700	141.69

CC-E V/V	-10... +10 V	-10... +10 V	1SVR011729R2000	141.69
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Wiring instruction



DIP switch settings (universal devices)

Input	Output	Switch	1	2	3	4	5	6	7	8	9	10
0-5 V	0-5 V											
	0-10 V											
	0-20 mA											
0-10 V	0-5 V											
	0-10 V											
	0-20 mA											
0-20 mA	0-5 V											
	0-10 V											
	0-20 mA											
4-20 mA	0-5 V											
	0-10 V											
	0-20 mA											



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Current/current isolator

CC-E I/I-1 and CC-E I/I-2

1



CC-E I/I-1



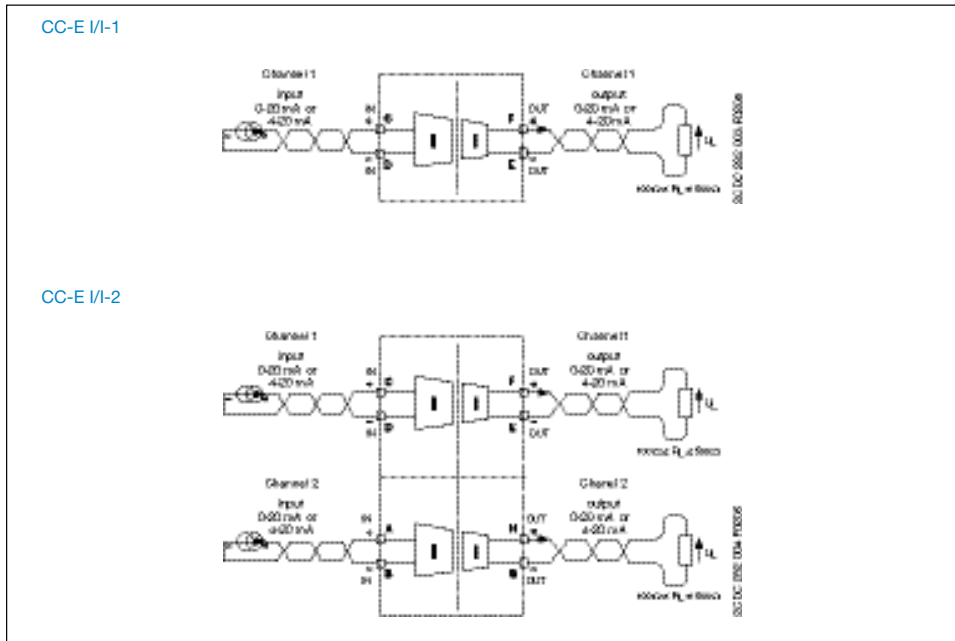
CC-E I/I-2

Loop-powered current/current isolator without external power supply for analog current signals of 0-20 mA and 4-20 mA

- Electrical isolation between input and output
- Very low internal voltage drop m 2.5 V
- Available with one or two independent channels
- Width only 18 mm (1 and 2 channels)

Type	Input signal	Output signal	Order Code	Price
1 channel				
CC-E I/I-1	0-20 mA, 4-20 mA	0-20 mA, 4-20 mA	1SVR010200R1600	158.28
2 channel				
CC-E I/I-2	0-20 mA, 4-20 mA	0-20 mA, 4-20 mA	1SVR010200R0300	POA

Wiring instructions

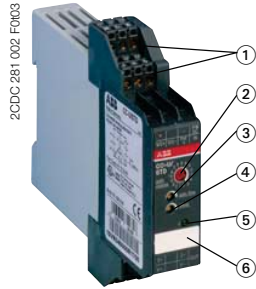


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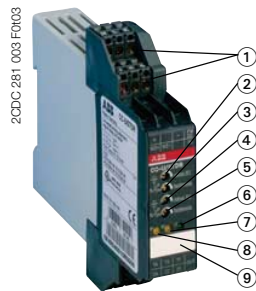
Analog standard signal converter

CC-U/STD & CC-U/STDR



CC-U/STD

- ① Plug-in terminals
- ② Gain: Coarse adjustment
- ③ Gain: Fine adjustment
- ④ Offset adjustment
- ⑤ U: green LED - supply voltage
- ⑥ Marker label



CC-U/STDR

- ① Plug-in connecting terminals
- ② Threshold value for R1
- ③ Hysteresis for R1
- ④ Threshold value for R2
- ⑤ Hysteresis for R2
- ⑥ U: green LED - supply voltage
- ⑦ R2: yellow LED - Relay 2 energized
- ⑧ R1: yellow LED - Relay 1 energized
- ⑨ Marker label



Full range of product and technical information place this part number in a search engine and download
2CDC110004C0206

CC-U/STD universal signal converter with 3-way electrical isolation

- More than 120 configurations possible
- Configurable output signal response on input voltage signal interruption (low fail safe / high fail safe)
- Adjustment and operating elements on the front
- Short-circuit proof signal outputs
- Plug-in connecting terminals for inputs, outputs and supply
- Very fast signal transmission enables use in control systems

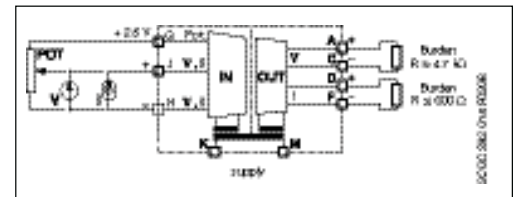
Type	Rated supply voltage	Order Code	Price
CC-U/STD	24-48 V DC	1SVR04000R1700	208.82
	110-240 V AC	1SVR040001R0400	208.82

DIP switch settings

Input	Switch 1						Gain Type	Coarse Type	Output	Switch 2											
	1	2	3	4	5	6				1	2	3	4	5	6						
Potentiometer							0	G	0...10 V												
0...50 mV							4...5	G	1...5 V												
0...100 mV							0...1	I	2...10 V												
0...200 mV							7...9	S	-10...+10 V												
0...1 V							3...4	S	-5...+5 V												
0...2.5 V							0	0	-10...+10 V												
0...5 V							5...7	G	-5...+5 V												
0...10 V							2	2	0...500 V												
0...5 V							7...9	S	-10...+3.33 V												
2...10 V							2...4	S	-5...+1.66 V												
-10...+10 V							0	0	0...1 V												
0...125 mV							3...4	S	0...2 V												
0...5 V							3...4	S	10...20 V												
22.5...+22.5 mV							B...F	D	-5...-1 V												
-11...+11 V							0	0	1.25...+2.5 V												
2.5...7.5 V							5...7	G	-2.5...-2.5 V												
3.33...9.99 V							3...4	4	-3.75...-1.25 V												
10...4 V							2	2	1.66...+0.33 V												
100...0 mV							4...5	5	-6.66...-6.66 V												
0...1 mA							A...B	G	-3.33...-3.33 V												
0...20 mA							2...4	S	0...0 V												
4...20 mA							4...5	4	4...0 V												
10...50 mA							0...1	1	0...1 mA												
20...4 mA							4...5	4	0...20 mA												
20...0 mA							4...2	S	0...20 mA												
0...45...+0.45 mA							B...F	D	0...10 mA												
0.55...+0.55 mA							4...5	5	0...10 mA												
High fail safe 1							4...5	5	0...10 mA												
Low fail safe 1							-	-	0...10 mA												
No fail safe 1							-	-	100...500 µA												

*) Detection of input voltage signal interruptions:
 If the input signal circuit is interrupted, the output signal changes to the adjusted minimum value (low fail safe) or maximum value (high fail safe).
 If "No fail safe" is configured, input signal interruptions are not detected.

Wiring instruction

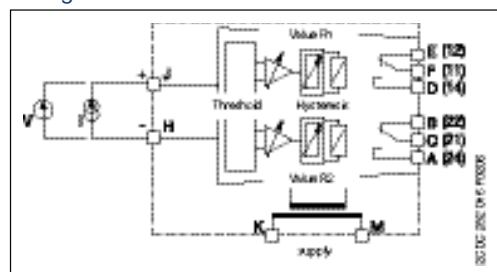


CC-U/STDR universal signal converter for standard signals, with 2 threshold relay outputs and with 3-way electrical isolation

- Standard signal converter with 7 setting ranges
- 2 threshold relay outputs with one c/o contact each (threshold and respective hysteresis can be adjusted independently from each other)
- Open-circuit or closed-circuit principle configurable by means of a DIP switch
- 2 yellow LEDs for clear status indication of the output relays
- Plug-in connecting terminals for inputs, outputs and supply

Type	Rated supply voltage	Order Code	Price
CC-U/STDR	24-48 V DC	1SVR040010R0000	171.75
	110-240 V AC	1SVR040011R2500	171.75

Wiring instruction



DIP switch settings

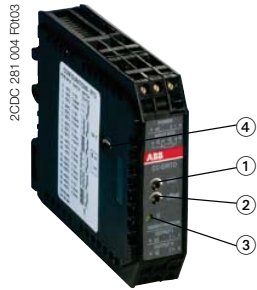
Input	Switch						Output
	1	2	3	4	5	6	
0...0 V							Closed-circuit principle
0...5 V							
0...1 V							Open-circuit principle
-10...+10 V							
1...5 V							Closed-circuit principle
0...20 mA							
4...20 mA							Open-circuit principle
0...10 mA							

Legend:
 ON (black square)
 OFF (white square)
 no influence (grey square)

Temperature signal converter for RTD sensors

CC-E/RTD

1



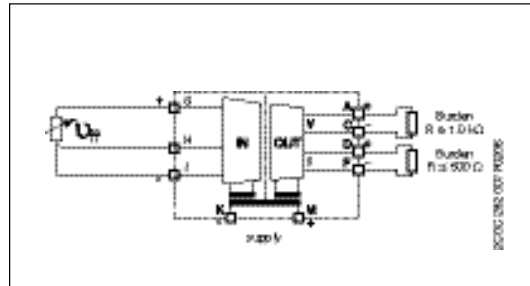
CC-E/RTD

- ① Gain adjustment
- ② Offset adjustment
- ③ U: green LED - supply voltage
- ④ DIP switch for input and output configuration (only available on universal devices)

CC-E/RTD temperature signal converter for RTD sensors, linearized with 3-way electrical isolation

- 2 universally configurable devices (type CC-E/RTD)
- 2x12 single-function devices
- "Plug and Work", no adjustment of single-function devices required
- Temperature signal converter for PT100 sensors
- 2- or 3-wire connection

Wiring instruction



DIP switch settings (universal devices)

Input	Output	Switch	T	1	2	3	4	5
0...100 °C	0-10V	Digital						
	0-20mA							
	4-20mA							
0...300 °C	0-10V							
	0-20mA							
	4-20mA							
0...500 °C	0-10V							
	0-20mA							
	4-20mA							
-50...+50 °C	0-10V							
	0-20mA							
	4-20mA							
-50...+50 °C	0-10V							
	0-20mA							
	4-20mA							
-50...+50 °C	0-10V							
	0-20mA							
	4-20mA							

Type	Input signal	Output signal	Order Code	Price
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Supply voltage: 24 V DC universal

CC-E/RTD	refer to table	0-10 V, 0-20 mA, 4-20 mA	1SVR011701R2500 ¹⁾	POA
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single-function

CC-E RTD/V	PT100 0...100 °C	0-10 V	1SVR011730R2500	150.28
CC-E RTD/I		0-20 mA	1SVR011731R1200	150.28
CC-E RTD/I		4-20 mA	1SVR011732R1300	150.27
CC-E RTD/V	PT100 -50...+50 °C	0-10 V	1SVR011733R1400	150.28
CC-E RTD/I		0-20 mA	1SVR011734R1500	150.28
CC-E RTD/I		4-20 mA	1SVR011735R1600	150.28
CC-E RTD/V	PT100 0...300 °C	0-10 V	1SVR011736R1700	150.28
CC-E RTD/I		0-20 mA	1SVR011737R1000	150.28
CC-E RTD/I		4-20 mA	1SVR011738R2100	150.28
CC-E RTD/V	PT100 0...+250 °C	0-10 V	1SVR011739R2200	150.28
CC-E RTD/I		0-20 mA	1SVR011740R0700	150.28
CC-E RTD/I		4-20 mA	1SVR011741R2400	150.28

Supply voltage: 110-240 V AC universal

CC-E/RTD	refer to table	0-10 V, 0-20 mA, 4-20 mA	1SVR011706R2200	171.75
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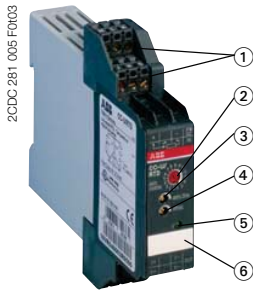
single-function

CC-E RTD/V	PT100 0...100 °C	0-10 V	1SVR011788R2400	150.28
CC-E RTD/I		0-20 mA	1SVR011789R2500	150.28
CC-E RTD/I		4-20 mA	1SVR011790R2200	150.28
CC-E RTD/V	PT100 -50...+50 °C	0-10 V	1SVR011791R1700	150.28
CC-E RTD/I		0-20 mA	1SVR011792R1000	150.28
CC-E RTD/I		4-20 mA	1SVR011793R1100	150.28
CC-E RTD/V	PT100 0...300 °C	0-10 V	1SVR011794R1200	150.28
CC-E RTD/I		0-20 mA	1SVR011795R1300	150.28
CC-E RTD/I		4-20 mA	1SVR011796R1400	150.28
CC-E RTD/V	PT100 0...+250 °C	0-10 V	1SVR011797R1500	150.28
CC-E RTD/I		0-20 mA	1SVR011798R2600	150.28
CC-E RTD/I		4-20 mA	1SVR011799R2700	150.28



Full range of product and technical information place this part number in a search engine and download
2CDC110004C0206

Temperature signal converter for RTD sensors CC-U/RTD & CC-U/RTDR with relay output



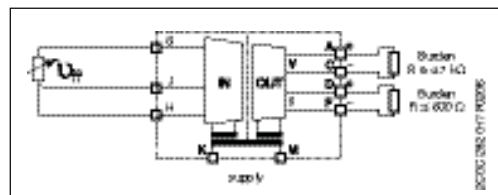
CC-U/RTD

- ① Plug-in connecting terminals
- ② Gain: Coarse adjustment
- ③ Gain: Fine adjustment
- ④ Offset adjustment
- ⑤ U: green LED - supply voltage
- ⑥ Marker label

CC-U/RTD universal signal converter for PT10, PT100, PT1000 temperature sensors (acc. to IEC 751 and JIS C 1604¹⁾, linearized with 3-way electrical isolation

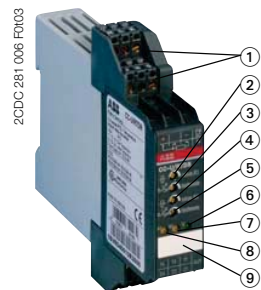
- Configurable output signal response on input signal interruption (low / high fail safe)
- Adjustment and operating elements on the front-side
- Short-circuit proof signal outputs
- Plug-in connecting terminals for inputs, outputs and supply
- 2- or 3-wire connection

Wiring diagrams



DIP switch settings

Type	Input Range	Switch 1						Switch 2						Gain Coarse	Switch 3			
		1	2	3	4	5	6	1	2	3	4	5	6		Output	1	2	3
PT10	0...500 °C													F	0...5 V			
	0...550 °C													E	0...10 V			
	0...600 °C													D	-10...+10 V			
	0...650 °C													C	-5...+5 V			
	0...700 °C													B	-10...0 V			
	0...750 °C													A	-5...0 V			
PT100	0...800 °C													9	0...6.66 V			
	0...850 °C													8	-10...+3.33 V			
	0...90 °C													7	0...3 V			
	0...100 °C													6	0...4 V			
	0...120 °C													5	-10...-2 V			
	0...150 °C													4	1.25...6.25 V			
PT1000	0...200 °C													3	-7.5...+2.5 V			
	0...300 °C													2	-3.75...+1.25 V			
	0...400 °C													1	1.66...8.33 V			
	0...500 °C													0	-6.66...+6.66 V			
	0...10 °C													9	-3.33...+3.33 V			
	0...20 °C													8	-8...0 V			
*) Detection of input signal interruptions: If the input signal circuit is interrupted, the output signal changes to the adjusted minimum value (low fail safe) or maximum value (high fail safe).																		



CC-U/RTDR

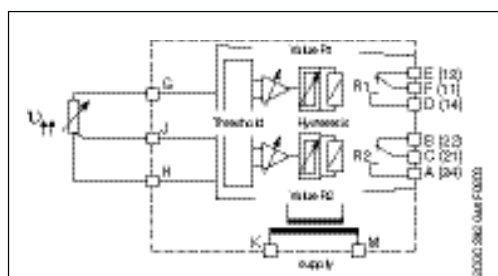
- ① Plug-in connecting terminals
- ② Threshold value for R1
- ③ Hysteresis for R1
- ④ Threshold value for R2
- ⑤ Hysteresis for R2
- ⑥ U: green LED - supply voltage
- ⑦ R2: yellow LED - Relay 2 energized
- ⑧ R1: yellow LED - Relay 1 energized
- ⑨ Marker label

CC-U/RTDR universal signal converter for temperature and resistance signals, with 2 threshold relay outputs and 3-way electrical isolation

- Temperature signal converter for PT100 signals (5 ranges up to 800 °C) and variable resistances from 0-380 Ω
- 2 threshold relay outputs with one c/o contact each (threshold and respective hysteresis can be adjusted independently from each other)
- Open-circuit or closed-circuit principle configurable by means of a DIP switch
- 2 yellow LEDs for clear status indication of the output relays
- Plug-in connecting terminals for inputs, outputs and supply
- 2- or 3-wire connection

Type	Rated supply voltage	Order Code	Price
CC-U/RTDR	24-48 V DC	1SVR040012R2500	POA
	110-240 V AC	1SVR040013R2700	194.21

Wiring instruction



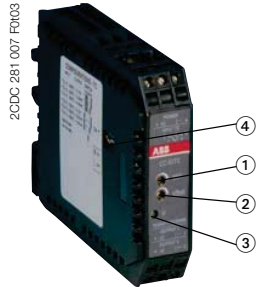
DIP switch settings

Input PT100	Switch						Output
	1	2	3	4	5	6	
0...300 °C							0...5 V
0...380 °C							0...10 V
0...400 °C							-10...+10 V
0...600 °C							-5...+5 V
0...800 °C							-10...0 V
0...380 Ω							-5...0 V

Full range of product and technical information place this part number in a search engine and download
2CDC110004C0206

Temperature signal converter for thermocouples CC-E/TC

1



CC-E/TC

- ① Gain adjustment
- ② Offset adjustment
- ③ U: green LED - supply voltage
- ④ DIP switch for input and output configuration (only available on universal devices)

CC-E/TC analog signal converter for thermocouple signals of the types J and K with 3-way electrical isolation

- 2 universally configurable devices (type CC-E/TC)
- 2x6 single-function devices
- "Plug and Work", no adjustment of single-function devices required

Type	Input signal	Output signal	Order Code	Price
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Supply voltage: 24 V DC universal

CC-E/TC	thermocouple types J and K	0-10 V, 0-20 mA, 4-20 mA	1SVR011702R2600 ¹⁾	POA
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single-function

CC-E TC/V	type J 0...600 °C	0-10 V	1SVR011750R0100	145.78
CC-E TC/I		0-20 mA	1SVR011751R2600	145.78
CC-E TC/I		4-20 mA	1SVR011752R2700	POA

CC-E TC/V	type K 0...1000 °C	0-10 V	1SVR011753R2000	145.78
CC-E TC/I		0-20 mA	1SVR011754R2100	145.78
CC-E TC/I		4-20 mA	1SVR011755R2200	POA

Supply voltage: 110-240 V AC universal

CC-E/TC	thermocouple types J and K	0-10 V, 0-20 mA, 4-20 mA	1SVR011707R2300	164.58
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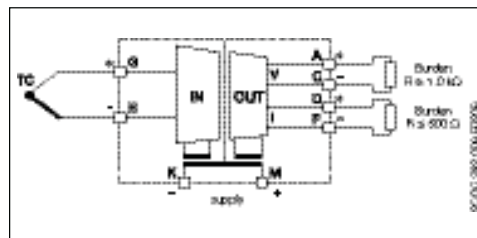
single-function

CC-E TC/V	type J 0...600 °C	0-10 V	1SVR011760R0300	145.78
CC-E TC/I		0-20 mA	1SVR011761R2000	145.78
CC-E TC/I		4-20 mA	1SVR011762R2100	145.78

CC-E TC/V	type K 0...1000 °C	0-10 V	1SVR011763R2200	145.78
CC-E TC/I		0-20 mA	1SVR011764R2300	145.78
CC-E TC/I		4-20 mA	1SVR011765R2400	145.78

¹⁾ 1604 Class I, Div.2 (universal device)

Wiring instruction



DIP switch settings (universal devices)

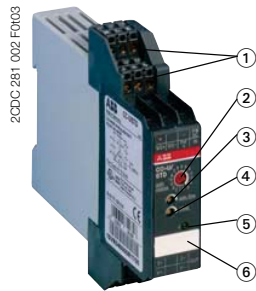
Input	Output	Switch	1	2	3	4	5	6
TC-J 0...600 °C	0-10V		ON	OFF	OFF	OFF	OFF	OFF
	0-20mA		OFF	ON	OFF	OFF	OFF	OFF
	4-20mA		OFF	OFF	ON	OFF	OFF	OFF
TC-K 0...1000 °C	0-10V		ON	OFF	OFF	OFF	OFF	OFF
	0-20mA		OFF	ON	OFF	OFF	OFF	OFF
	4-20mA		OFF	OFF	ON	OFF	OFF	OFF

Legend:
 ON
 OFF
 No influence



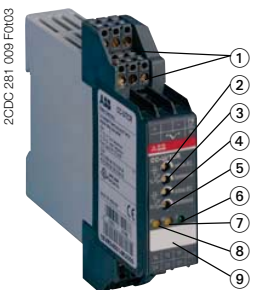
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Temperature signal converter for thermocouples CC-U/TC and CC-U/TCR



CC-U/TC

- ① Plug-in terminals
- ② Gain: Coarse adjustment
- ③ Gain: Fine adjustment
- ④ Offset adjustment
- ⑤ U: green LED - supply voltage
- ⑥ Marker label



CC-U/TCR

- ① Plug-in connecting terminals
- ② Threshold value for R1
- ③ Hysteresis for R1
- ④ Threshold value for R2
- ⑤ Hysteresis for R2
- ⑥ U: green LED - supply voltage
- ⑦ R2: yellow LED - Relay 2 energized
- ⑧ R1: yellow LED - Relay 1 energized
- ⑨ Marker label



Full range of product and technical information place this part number in a search engine and download
2CDC110004C0206

CC-U/TC universal signal converter for thermocouples with 3-way electrical isolation

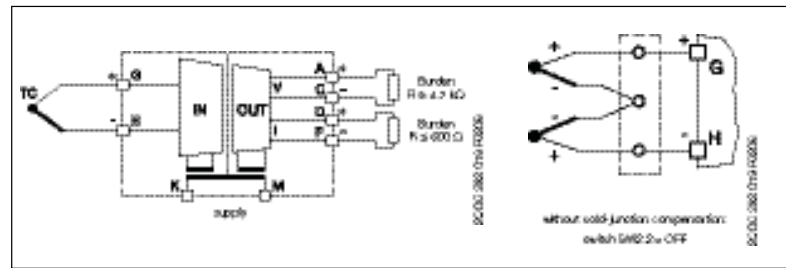
- Temperature signal converter for thermocouples of the types K, J, T, S, E, N, R, B
- Continuously adjustable voltage signal input 0-10 mV and 0-50 mV
- Differential temperature meas. possible ¹⁾
- Configurable output signal response on input signal interruption (low fail safe / high fail safe)
- Adjustment and operating elements on the front-side
- Short-circuit proof signal outputs
- Plug-in connecting terminals for inputs, outputs and supply

DIP switch settings

Type	Input Range	Switch 1						Switch 2					
		1	2	3	4	5	6	1	2	3	4	5	6
K	0-100...900 °C	■	■	■	■	■	■	■	■	■	■	■	■
J	0-250...1350 °C	■	■	■	■	■	■	■	■	■	■	■	■
T	0-100...400 °C	■	■	■	■	■	■	■	■	■	■	■	■
S	-150...400 °C	■	■	■	■	■	■	■	■	■	■	■	■
E	0-100...700 °C	■	■	■	■	■	■	■	■	■	■	■	■
N	0-200...1300 °C	■	■	■	■	■	■	■	■	■	■	■	■
R	0-250...1350 °C	■	■	■	■	■	■	■	■	■	■	■	■
B	0-450...1700 °C	■	■	■	■	■	■	■	■	■	■	■	■
mV	0-2...10 mV	■	■	■	■	■	■	■	■	■	■	■	■
	0-10...50 mV	■	■	■	■	■	■	■	■	■	■	■	■
	Low fail safe ¹⁾												
	High fail safe ²⁾												

Output	Switch 3					
	1	2	3	4	5	6
0...5 V	■	■	■	■	■	■
0...10 V	■	■	■	■	■	■
1...5 V	■	■	■	■	■	■
2...10 V	■	■	■	■	■	■
-10...+10 V	■	■	■	■	■	■
-5...+5 V	■	■	■	■	■	■
-10...0 V	■	■	■	■	■	■
-5...0 V	■	■	■	■	■	■
0...6.66 V	■	■	■	■	■	■
-10...+3.33 V	■	■	■	■	■	■
-5...+1.66 V	■	■	■	■	■	■
0.8 V	■	■	■	■	■	■
0.4 V	■	■	■	■	■	■
-10...-2 V	■	■	■	■	■	■
-5...-1 V	■	■	■	■	■	■
1.25...6.25 V	■	■	■	■	■	■
-7.5...+2.5 V	■	■	■	■	■	■
-3.75...+1.25 V	■	■	■	■	■	■
1.66...8.33 V	■	■	■	■	■	■
-6.66...+6.66 V	■	■	■	■	■	■
-3.33...+3.33 V	■	■	■	■	■	■
-8...0 V	■	■	■	■	■	■
-4...0 V	■	■	■	■	■	■
0...1 mA	■	■	■	■	■	■
0...20 mA	■	■	■	■	■	■
4...20 mA	■	■	■	■	■	■
0...10 mA	■	■	■	■	■	■
0...0.5 mA	■	■	■	■	■	■
0...13.33 mA	■	■	■	■	■	■
0...666 μA	■	■	■	■	■	■
0...16 mA	■	■	■	■	■	■
0...800 μA	■	■	■	■	■	■
0...8 mA	■	■	■	■	■	■
0...400 μA	■	■	■	■	■	■
2.5...12.5 mA	■	■	■	■	■	■
125...625 μA	■	■	■	■	■	■
3.33...16.66 mA	■	■	■	■	■	■
166...833 μA	■	■	■	■	■	■
0.2...1 mA	■	■	■	■	■	■
2...10 mA	■	■	■	■	■	■
100...500 μA	■	■	■	■	■	■

Wiring instruction

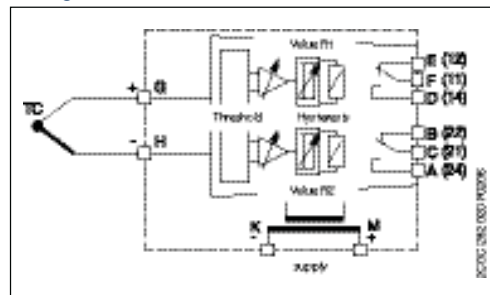


Type	Rated supply voltage	Order Code	Price
CC-U/TC	24-48 V DC	1SVR040004R0700	249.75
	110-240 V AC	1SVR040005R0000	249.75

CC-U/TCR universal signal converter for thermocouples, with 2 threshold relay outputs and 3-way electrical isolation

- Temperature signal converter for thermocouples of the types K, J, T, S
- 2 threshold relay outputs with one change-over contact each (threshold and respective hysteresis can be adjusted independently from each other)
- Open-circuit or closed-circuit principle configurable by means of a DIP switch
- 2 yellow LEDs for clear status indication of the output relays
- Plug-in connecting terminals for inputs, outputs and supply

Wiring instruction



DIP switch settings

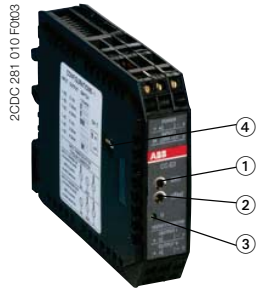
Type	Input Range	Switch					
		1	2	3	4	5	6
J	0...240 °C	■	■	■	■	■	■
	0...480 °C	■	■	■	■	■	■
	0...1200 °C	■	■	■	■	■	■
K	0...250 °C	■	■	■	■	■	■
	0...500 °C	■	■	■	■	■	■
	0...1350 °C	■	■	■	■	■	■
T	-150...+120 °C	■	■	■	■	■	■
	0...220 °C	■	■	■	■	■	■
	0...400 °C	■	■	■	■	■	■
S	0...210 °C	■	■	■	■	■	■
	0...380 °C	■	■	■	■	■	■
	0...860 °C	■	■	■	■	■	■
	0...1550 °C	■	■	■	■	■	■
Output							
Closed-circuit principle		■	■	■	■	■	■
Open-circuit principle		■	■	■	■	■	■

Type	Rated supply voltage	Order Code	Price
CC-U/TCR	24-48 V DC	1SVR040014R2000	194.21
	110-240 V AC	1SVR040015R2100	194.21

Measuring converters

CC-E I and CC-U/I

1



CC-E/I

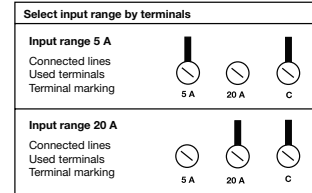
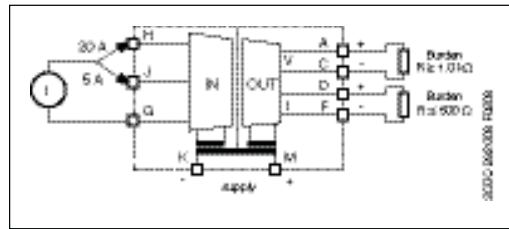
- ① Gain adjustment
- ② Offset adjustment
- ③ U: green LED - supply voltage
- ④ DIP switch for input and output configuration (only available on universal devices)

① 1604 Class I, Div.2 (universal device)

CC-E/I measuring converter for current signals 0-5 A, 0-20 A, AC/DC with 3-way electrical isolation

- 2 universally configurable devices (type CC-E/I)
- 2x6 single-function devices
- "Plug and Work", no adjustment of single-function devices required

Wiring instruction

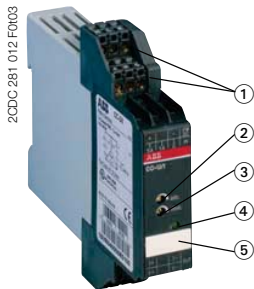


DIP switch settings

Input	Output	Switch
		1 2 3 4 5 6
I - DC	0...10 V	■
I - AC	0...10 V	□
I - DC	0...20 mA	■
I - AC	0...20 mA	□
I - DC	4...20 mA	■
I - AC	4...20 mA	□

Legend: ■ ON □ OFF

Type	Input signal	Output signal	Order Code	Price
Supply voltage: 24 V DC universal				
CC-E/I	0-5 A, 0-20 A, AC/DC	0-10 V, 0-20 mA, 4-20 mA	1SVR011703R2700 ¹⁾	164.57
Supply voltage: 110-240 V AC universal				
CC-E/I	0-5 A, 0-20 A, AC/DC	0-10 V, 0-20 mA, 4-20 mA	1SVR011708R0400	164.57



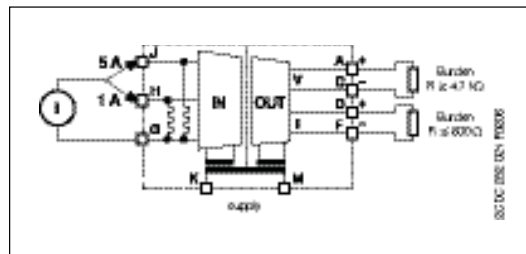
CC-U/I

- ① Plug-in connecting terminals
- ② Gain adjustment
- ③ Offset adjustment
- ④ U: green LED - supply voltage
- ⑤ Marker label

CC-U/I universal measuring converter for RMS values of 0-1 A and 0-5 A, with 3-way electrical isolation

- RMS converter for current signals up to 1 A and up to 5 A of any wave form (DC, DC with superimposed AC components, pure sinusoidal, triangular, phase-angle controlled, etc. in a measuring range of 0-600 Hz)
- Adjustment and operating elements on the front
- Short-circuit proof signal outputs
- Plug-in connecting terminals for inputs, outputs and supply

Wiring instruction



DIP switch settings

Output	Switch
	1 2 3 4 5 6
0...0.5 V	■
0...10 V	■
1...5 V	■
2...10 V	■
-10...+10 V	■
-5...+5 V	■
-10...0 V	■
-5...0 V	■
0...6.66 V	■
-10...+3.33 V	■
-5...+1.66 V	■
0...8 V	■
0...4 V	■
-10...-2 V	■
-5...-1 V	■
1.25...6.25 V	■
-7.5...+2.5 V	■
-3.75...+1.25 V	■
1.66...8.33 V	■
-6.66...+6.66 V	■
-3.33...+3.33 V	■
-8...0 V	■
-4...0 V	■
0...1 mA	■
0...20 mA	■
4...20 mA	■
0...10 mA	■
0...0.5 mA	■
0...13.33 mA	■
0...666 μA	■
0...16 mA	■
0...800 μA	■
0...8 mA	■
0...400 μA	■
2.5...12.5 mA	■
125...625 μA	■
3.33...16.66 mA	■
166...833 μA	■
0.2...1 mA	■
2...10 mA	■
100...500 μA	■

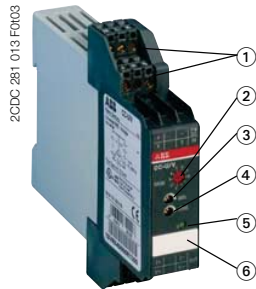
Legend: ■ ON □ OFF □ no influence



Full range of product and technical information place this part number in a search engine and download
2CDC110004C0206

Type	Rated supply voltage	Order Code	Price
CC-U/I	24-48 V DC	1SVR040006R0100	246.88
	110-240 V AC	1SVR040007R0200	246.88

Measuring converter for voltage RMS values CC-U/V and accessories



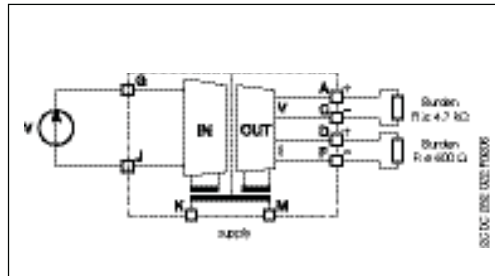
CC-U/V universal measuring converter for RMS values of 0-600 V, with 3-way electrical isolation

- RMS converter for voltage signals up to 600 V of any wave form (DC, DC with superimposed AC components, pure sinusoidal, triangular, phase-angle controlled, etc. in a measuring range of 0-600 Hz)
- Adjustment and operating elements on the front
- Short-circuit proof signal outputs
- Plug-in connecting terminals for inputs, outputs and supply

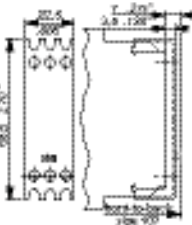
CC-U/V

- 1 Plug-in connecting terminals
- 2 Input voltage range selection
- 3 Gain adjustment
- 4 Offset adjustment
- 5 U: green LED - supply voltage
- 6 Marker label

Wiring instruction



Type	Rated supply voltage	Order Code	Price
CC-U/V	24-48 V DC	1SNA040008R1300	POA
	110-240 V AC	1SNA040009R1400	POA



Sealable cover
COV.01

Accessories for CC-U

Sealable transparent cover

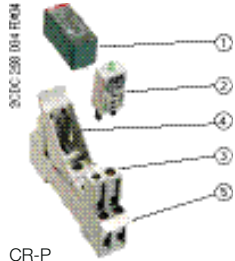
Type	for type	Width mm	Order Code	Price
CC-U/I	CC-U	22.5	1SVR405600R4000	2.04



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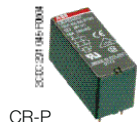
Pluggable interface relays CR-P

Pcb relays

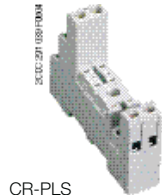


CR-P

- 1 interface relay
- 2 Pluggable function module
- 3 Socket
- 4 Holder
- 5 Marker



CR-P



CR-PLS



CR-PSS



CR-PLC



CR-PH



Full range of product and technical information place this part number in a search engine and download
2CDC110004C0206

Type	Rated control supply voltage	Order Code	Price
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Interface relays

1 c/o contact: 250 V, 16 A

CR-P012DC1	12 V DC	1SVR405600R4000	2.04
CR-P024DC1	24 V DC	1SVR405600R0000	2.42
CR-P024AC1	24 V AC	1SVR405600R1000	2.04
CR-P110AC1	110 V AC	1SVR405600R7000	3.00
CR-P230AC1	230 V AC	1SVR405600R3000	4.00

2 c/o contacts: 250 V, 8 A

CR-P012DC2	12 V DC	1SVR405601R4000	2.42
CR-P024DC2	24 V DC	1SVR405601R1000	2.42
CR-P024AC2	24 V AC	1SVR405601R0000	2.84
CR-P110AC2	110 V AC	1SVR405601R7000	3.37
CR-P230AC2	230 V AC	1SVR405601R3000	4.42

Interface relays with gold contacts

2 c/o gold contacts: 250 V, 8 A

CR-P024DC2G	24 V DC	1SVR405606R1000	5.10
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Accessories - Sockets

Type	Version	Connection terminals	Order Code	Price
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Sockets

CR-PLS	Logical socket with protective separation	screw	1SVR405650R0000	3.07
CR-PSS	Standard socket	screw	1SVR405650R1000	2.92

Socket accessories

CR-PH	Plastic Holder		1SVR405659R0000	0.24
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Markers

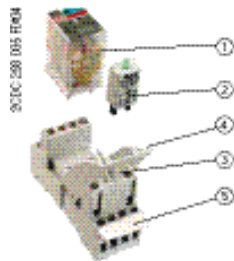
CR-P	Marker		1SVR405658R0000	0.09
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1

Pluggable interface relays CR-M

Miniature relays

1



CR-M

- 1 Interface relay
- 2 Pluggable function module
- 3 Socket
- 4 Holder
- 5 Marker



CR-M

Type	Rated control supply voltage	Order Code	Price
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Interface relays without LED 2 c/o contacts: 250 V, 12 A

CR-M012DC2	12 V DC	1SVR405611R4000	4.48
CR-M024DC2	24 V DC	1SVR405611R1000	4.48
CR-M024AC2	24 V AC	1SVR405611R0000	4.73
CR-M110AC2	110 V AC	1SVR405611R7000	4.88
CR-M230AC2	230 V AC	1SVR405611R3000	5.25

3 c/o contacts: 250 V, 10 A

CR-M012DC3	12 V DC	1SVR405612R4000	4.65
CR-M024DC3	24 V DC	1SVR405612R1000	4.65
CR-M024AC3	24 V AC	1SVR405612R0000	4.88
CR-M110AC3	110 V AC	1SVR405612R7000	5.02
CR-M230AC3	230 V AC	1SVR405612R3000	5.41

4 c/o contacts: 250 V, 6 A

CR-M012DC4	12 V DC	1SVR405613R4000	4.79
CR-M024DC4	24 V DC	1SVR405613R1000	4.79
CR-M024AC4	24 V AC	1SVR405613R0000	5.02
CR-M110AC4	110 V AC	1SVR405613R7000	5.19
CR-M230AC4	230 V AC	1SVR405613R3000	5.57

Type	Rated control supply voltage	Order Code	Price
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Interface relays with LED 2 c/o contacts: 250 V, 12 A

CR-M012DC2L	12 V DC	1SVR405611R4100	5.38
CR-M024DC2L	24 V DC	1SVR405611R1100	5.38
CR-M024AC2L	24 V AC	1SVR405611R0100	5.61
CR-M110AC2L	110 V AC	1SVR405611R7100	5.75
CR-M230AC2L	230 V AC	1SVR405611R3100	6.15

3 c/o contacts: 250 V, 10 A

CR-M012DC3L	12 V DC	1SVR405612R4100	5.52
CR-M024DC3L	24 V DC	1SVR405612R1100	5.52
CR-M024AC3L	24 V AC	1SVR405612R0100	5.75
CR-M110AC3L	110 V AC	1SVR405612R7100	5.91
CR-M230AC3L	230 V AC	1SVR405612R3100	6.30

4 c/o contacts: 250 V, 6 A

CR-M012DC4L	12 V DC	1SVR405613R4100	5.69
CR-M024DC4L	24 V DC	1SVR405613R1100	5.69
CR-M110DC4L	110 V DC	1SVR405613R8100	6.30
CR-M024AC4L	24 V AC	1SVR405613R0100	5.91
CR-M110AC4L	110 V AC	1SVR405613R7100	6.06
CR-M230AC4L	230 V AC	1SVR405613R3100	6.45



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2CDC110004C0206

Pluggable interface relays CR-M

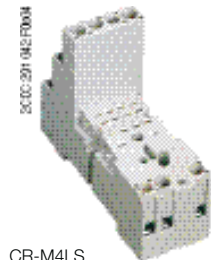
Miniature relays



CR-M



CR-M4SS



CR-M4LS



CR-M4LC



CR-MH



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Type	Rated control supply voltage	Order Code	Price
Interface relays with gold contacts 4 c/o contacts: 250 V, 6 A			
CR-M024DC4G	24 V DC	1SVR405618R1000	8.96
Interface relays with gold contacts and LED 4 c/o contacts: 250 V, 6 A			
CR-M024DC4LG	24 V DC	1SVR405618R1100	9.13
CR-M024AC4LG	24 V AC	1SVR405618R0100	9.38
CR-M110AC4LG	110 V AC	1SVR405618R7100	9.52
CR-M230AC4LG	230 V AC	1SVR405618R3100	9.90

Accessories - Sockets

Type	Version	Connection terminals	Order Code	Price
Sockets				
CR-M2LS	Logical socket ¹⁾ for 2 c/o	screw	1SVR405651R1100	2.92
CR-M3LS	Logical socket ¹⁾ for 3 c/o		1SVR405651R2100	3.14
CR-M4LS	Logical socket ¹⁾ for 2/4 c/o		1SVR405651R3100	3.37
CR-M2LC	Logical socket ¹⁾ for 2 c/o	spring connection	1SVR405651R1200	4.00
CR-M4LC	Logical socket ¹⁾ for 2/4 c/o		1SVR405651R3200	4.44
CR-M2SS	Standard socket for 2 c/o	screw	1SVR405651R1000	2.77
CR-M3SS	Standard socket for 3 c/o		1SVR405651R2000	3.00
CR-M4SS	Standard socket for 2/4 c/o		1SVR405651R3000	3.23

Socket accessories

CR-MH	Plastic holder	1SVR405659R1000	0.40
CR-MH1	Metal holder	1SVR405659R1100	0.32

Markers

CR-M	Marker	1SVR405658R1000	0.09
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Pluggable interface relays CR-P, CR-M - Accessories

Pluggable function modules

1



CR-P/M...

Type	Rated control supply voltage	Version	Order Code	Price
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Diode - Reverse polarity protection/free wheeling diode

CR-P/M 22	6-230 V DC	A1+, A2-	1SVR405651R0000	0.88
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Diode and LED - Reverse polarity protection/free wheeling diode

CR-P/M 42	6-24 V DC	red, A1+, A2-	1SVR405652R0000	1.81
CR-P/M 42V	6-24 V DC	green, A1+, A2-	1SVR405652R1000	1.81
CR-P/M 42B	24-60 V DC	red, A1+, A2-	1SVR405652R4000	1.81
CR-P/M 42BV	24-60 V DC	green, A1+, A2-	1SVR405652R4100	1.81
CR-P/M 42C	110-230 V DC	red, A1+, A2-	1SVR405652R9000	1.81
CR-P/M 42CV	110-230 V DC	green, A1+, A2-	1SVR405652R9100	1.96

RC element - Spark quenching

CR-P/M 52B	6-24 V AC		1SVR405653R0000	1.97
CR-P/M 52D	24-60 V AC		1SVR405653R4000	2.13
CR-P/M 52C	110-230 V AC		1SVR405653R1000	1.97

Diode and LED

CR-P/M 62	6-24 V AC/DC	red, for DC A1+, A2-	1SVR405654R0000	2.04
CR-P/M 62V	6-24 V AC/DC	green, for DC A1+, A2-	1SVR405654R1000	2.04
CR-P/M 62E	24-60 V AC/DC	red, for DC A1+, A2-	1SVR405654R4000	2.04
CR-P/M 62EV	24-60 V AC/DC	green, for DC A1+, A2-	1SVR405654R4100	2.24
CR-P/M 92	110-230 V AC/DC	red, for DC A1+, A2-	1SVR405654R0100	2.04
CR-P/M 92V	110-230 V AC/DC	green, for DC A1+, A2-	1SVR405654R1100	2.04

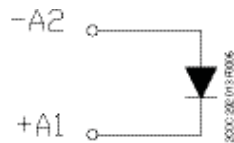
Varistor and LED - Overvoltage protection

CR-P/M 62C	6-24 V AC/DC	red, for DC A1+, A2-	1SVR405655R0000	2.84
CR-P/M 62CV	6-24 V AC/DC	green, for DC A1+, A2-	1SVR405655R1000	3.14
CR-P/M 62D	24-60 V AC/DC	red, for DC A1+, A2-	1SVR405655R4000	3.14
CR-P/M 62DV	24-60 V AC/DC	green, for DC A1+, A2-	1SVR405655R4100	3.69
CR-P/M 92C	110-230 V AC/DC	red, for DC A1+, A2-	1SVR405655R0100	2.84
CR-P/M 92CV	110-230 V AC/DC	green, for DC A1+, A2-	1SVR405655R1100	3.14

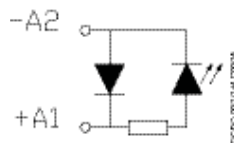
Varistor - Overvoltage protection

CR-P/M 72	24 V AC		1SVR405656R0000	2.04
CR-P/M 72A	115 V AC		1SVR405656R1000	2.30
CR-P/M 82	230 V AC		1SVR405656R2000	2.04

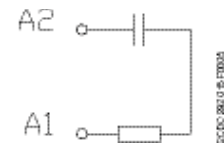
Connection diagrams



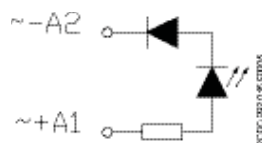
CR-P/M 22



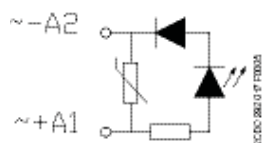
CR-P/M 42, CR-P/M 42B, CR-P/M 42C, CR-P/M 42CV, CR-P/M 42E, CR-P/M 42EV



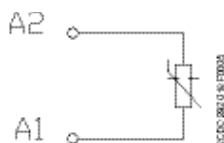
CR-P/M 52B, CR-P/M 52C, CR-P/M 52D



CR-P/M 62, CR-P/M 62E, CR-P/M 62V, CR-P/M 62EV, CR-P/M 92, CR-P/M 92V



CR-P/M 62C, CR-P/M 62D, CR-P/M 62DV, CR-P/M 92C, CR-P/M 92CV



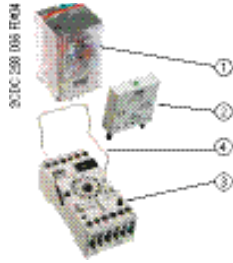
CR-P/M 72, CR-P/M 72A, CR-P/M 82



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Pluggable interface relays CR-U

Universal relays



CR-U

- 1 Interface relay
- 2 Pluggable function module
- 3 Socket
- 4 Holder



CR-U



CR-U3S



CR-U3E



CR-UH



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2CDC110004C0206

Type	Rated control supply voltage	Order Code	Price
Interface relays without LED: 2 c/o contacts: 250 V, 10 A			
CR-U012DC2	12 V DC	1SVR405621R4000	6.77
CR-U024DC2	24 V DC	1SVR405621R1000	6.77
CR-U024AC2	24 V AC	1SVR405621R0000	6.83
CR-U110AC2	110 V AC	1SVR405621R7000	7.00
CR-U230AC2	230 V AC	1SVR405621R3000	7.14

Interface relays without LED: 3 c/o contacts: 250 V, 10 A			
CR-U012DC3	12 V DC	1SVR405622R4000	7.00
CR-U024DC3	24 V DC	1SVR405622R1000	7.00
CR-U024AC3	24 V AC	1SVR405622R0000	7.06
CR-U110AC3	110 V AC	1SVR405622R7000	7.23
CR-U230AC3	230 V AC	1SVR405622R3000	7.40

Interface relays with LED: 2 c/o contacts: 250 V, 10 A			
CR-U012DC2L	12 V DC	1SVR405621R4100	8.59
CR-U024DC2L	24 V DC	1SVR405621R1100	7.62
CR-U024AC2L	24 V AC	1SVR405621R0100	7.73
CR-U110AC2L	110 V AC	1SVR405621R7100	7.87
CR-U230AC2L	230 V AC	1SVR405621R3100	8.02

Interface relays with LED: 3 c/o contacts: 250 V, 10 A			
CR-U012DC3L	12 V DC	1SVR405622R4100	8.85
CR-U024DC3L	24 V DC	1SVR405622R1100	7.87
CR-U024AC3L	24 V AC	1SVR405622R0100	7.96
CR-U110AC3L	110 V AC	1SVR405622R7100	8.10
CR-U230AC3L	230 V AC	1SVR405622R3100	8.29

Accessories - Sockets + Function Modules

Type	Version	Order Code	Price
Sockets			
CR-U2S	Socket for 2 c/o and module	1SVR405670R0000	3.33
CR-U3S	Socket for 3 c/o and module	1SVR405660R0000	3.40
CR-U3E	Socket for 3 c/o	1SVR405660R0100	3.23

Accessories Sockets

CR-UH	Holder for CR-U socket	1SVR405669R0000	1.11
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Diode - Reverse polarity protection/free wheeling diode

CR-U21	6-230v DC A1+, A2-	1SVR405661R0000	1.11
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Diode & LED - Reverse polarity protection/free wheeling diode

CR-U41	6-24v DC Red, A1+, A2-	1SVR405662R0000	2.04
CR-U41V	6-24v DC Green, A1+, A2-	1SVR405662R1000	2.04

Varistor - Overvoltage protection

CR-U71	6-24v AC	1SVR405666R0000	POA
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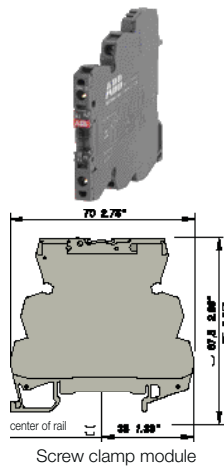
Relays and optocouplers

Relay Interfaces - R600 relay modules

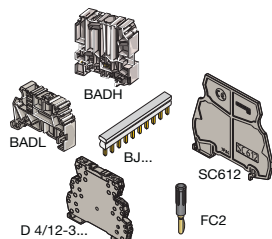
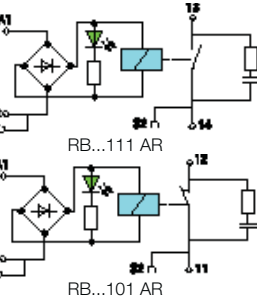
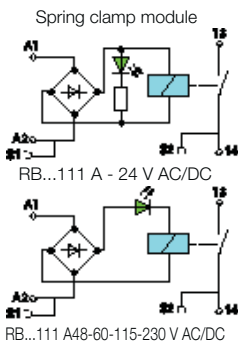


DIN 3

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Screw clamp module



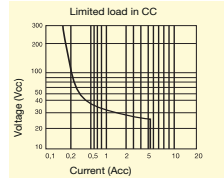
Relay : 1NO or 1NC high level contact 10 mA to 6 A - 6 mm .236» or 12 mm .472» spacing

Characteristics

Relay characteristics	RB 111 A					RB 111 AI	RB 111 AR	RB 101 AR
	24 VAC/DC	48 VAC/DC	60 VAC/DC	115 VAC/DC	230 VAC/DC	24 VAC/DC	24 VAC/DC	24 VAC/DC
COIL								
Rated voltage +20%, -15% on DC ; +10%, -10% on AC	24 VAC/DC	48 VAC/DC	60 VAC/DC	115 VAC/DC	±10% on AC +10% -15% on DC 230 VAC/DC	24 VAC/DC	24 VAC/DC	24 VAC/DC
Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Power	0,24 W	0,34 W	0,54 W	0,46 W	0,8 W	0,24 W	0,24 W	0,24 W
Rated current	10 mA	7 mA	9 mA	4 mA	3,5 mA	10 mA	10 mA	10 mA
Drop-out voltage at 20°C	4,5 V	8 V	8 V	17 V	27 V	4,5 V	4,5 V	4,5 V
Status device	green LED							
CONTACT								
Type	1 NO						1 NO + RC	1 NC + RC
Voltage switching range min./max.	12 V / 250 V AC							
Current switching range min./max.	10 mA / 6 A							
Load switching range	0,6 VA / 1500 VA (ohmic load)							
AC1 min. / max.	0,6 W / 140 W							
DC1 min. / max.	10 ³ on AC15							
Number of on-load operations	10 ⁷							
Number of off-load operations	10 ⁷							
Operating speed	F 5 ms	5 ms	5 ms	6 ms	7 ms	5 ms	5 ms	5 ms
	O 8 ms	8 ms	8 ms	15 ms	15 ms	8 ms	8 ms	8 ms
Bounce	1,2 ms							
Insulation coil / contact	4000 V RMS							
Resistance to shock coil / contact	4000 V RMS							
Insulation contact / contact	1000 V RMS							
Ambient temperature storage	-40°C to +80°C							
operating	-20°C to +70°C (1)							
Other characteristics	Screw clamp				Spring clamp			
Body material	grey UL 94 V0				grey UL 94 V0			
Wire	Solid wire 0,2 - 4 mm ² / 24 - 12 AWG				Solid wire 0,2 - 2,5 mm ² / 24 - 12 AWG			
size	Stranded wire 0,22 - 2,5 mm ² / 24 - 12 AWG				Stranded wire 0,22 - 2,5 mm ² / 24 - 12 AWG			
Rated wire size	2,5 mm ² / 12 AWG				2,5 mm ² / 12 AWG			
Wire stripping length	9 mm .354"				9 mm .354"			
Recommended screwdriver	3,5 mm .137"				3,5 mm .137"			
Protection	IP20 NEMA1				IP20 NEMA1			
Recommended torque	0,4 - 0,6 Nm 3.5 - 5.3 lb.in				0,4 - 0,6 Nm 3.5 - 5.3 lb.in			
Approvals	cULus, (pending), LRS, CE							

Reference standards CEI 947-7-1 / CEI 947-1 / CEI 1131-2 (in relevant parts) / CEI 60664-1 / CEM : IRC 1000-4-2, 3, 4, 5, 6.

(1) Over 55°C, blocks have to be mounted on horizontal rail with 10 mm spacing between each block. For vertical rail mounting use temperature is 15°C less decreased.



	DC12	AC12	DC13	AC15
24 V	6 A	6 A	1 A	3 A
110/120 V	0,3 A	6 A	0,2 A	3 A
220/230 V	0,2 A	6 A	0,1 A	3 A

Description	Type	Order Code	Price
Relay module 1 NO high level with safety switch 6 mm spacing	RB 111 A1-24VAC/DC	1SNA645063R2000	POA
	RB 111 A-24VAC/DC	1SNA645014R2700	10.77
	RB 111 A-48-60VAC/D	1SNA645014R2700	10.77
	RB 111 A-115VAC/DC	1SNA645016R2100	13.02
	RB 111 A-230VAC/DC	1SNA645017R2200	13.59
Relay mod. 1 NO high level w/contact protection 12 mm spacing	RB 111 AR-24VAC/DC	1SNA645018R0300	18.73
Relay mod. 1 NC high level w/contact protection 12 mm spacing	RB 101 AR-24VAC/DC	1SNA645019R0400	18.73

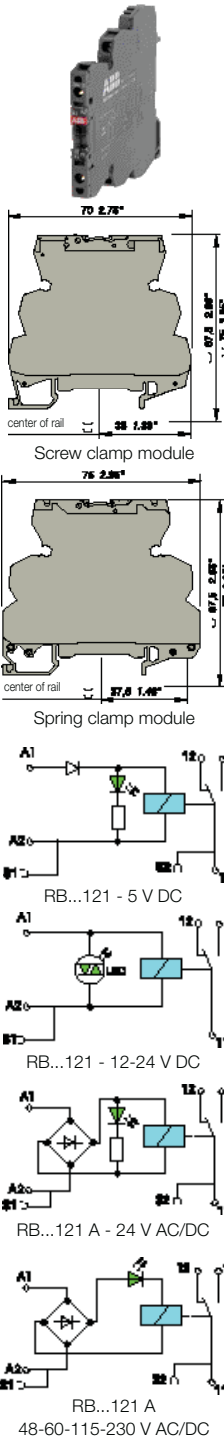
Accessories	Type	Order Code	Price
End stop	BADH V0	1SNA116900R2700	POA
	BADL V0	1SNA399903R0200	POA
	BAM2 V0	1SNA399067R0100	POA
Separator end section	SC612	1SNA290474R0200	0.72
Divisible shunt 10 poles	BJ612-10	1SNA290488R0100	1.03
Divisible shunt 70 poles	BJ612-70	1SNA290489R0200	POA
Screw clamp distribution block sp. 12mm	D4/12-3-3	1SNA345031R2000	POA
	D4/12-3R-3R	1SNA345631R2200	POA
Test plug DIA. 2mm	FC2	1SNA007865R2600	POA
Marking method	RC65 RC610	see marking	POA

Relays and optocouplers

Relay Interfaces - R600 relay modules



DIN 3

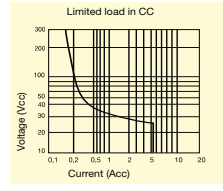


Relay : 1 SPDT high level contact 10 mA to 6 A - 6 mm .236» spacing

Characteristics

Relay characteristics	RB 121				RB 121A				±10% on AC +10% -15% on DC 230 V AC/DC
	5 V DC	12 V DC	24 V DC	24 VAC/DC	48 V AC/DC	60 V AC/DC	115 V AC/DC	50 / 60 Hz	
COIL									
Rated voltage	+20%, -15% on DC ; +10%, -10% on AC								
Frequency				50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Power	0,2 W	0,2 W	0,28 W	0,24 W	0,33 W	0,54 W	0,46 W	0,8 W	
Rated current	40 mA	16 mA	12 mA	10 mA	7 mA	9 mA	4 mA	3,5 mA	
Drop-out voltage at 20°C	1,2 V	2,2 V	1,2 V	4,5 V	8 V	8 V	17 V	27 V	
Status device	green LED								
CONTACT									
Type	1 SPDT								
Voltage switching range min./max.	12 V / 250 V AC								
Current switching range min./max.	10 mA / 6 A								
Load switching range	0,6 VA / 1500 VA (ohmic load)								
AC1 min. / max.	0,6 W / 140 W								
DC1 min. / max.	10 ⁵ on AC15								
Number of on-load operations	10 ⁷								
Number of off-load operations									
Operating speed	F 5 ms	5 ms	5 ms	5 ms	5 ms	5 ms	6 ms	7 ms	
	O 8 ms	8 ms	8 ms	8 ms	8 ms	8 ms	15 ms	16 ms	
Bounce	1,2 ms								
Insulation coil / contact	4000 V RMS								
Resistance to shock coil / contact	4000 V RMS								
Insulation contact / contact	1000 V RMS								
Ambient temperature storage	-40°C to +80°C								
operating	-20°C to +70°C (1)								
Other characteristics	Screw clamp				Spring clamp				
Body material	grey				UL 94 V0				
Wire	Solid wire				0,2 - 2,5 mm ² / 24 - 12 AWG				
size	Stranded wire				0,22 - 2,5 mm ² / 24 - 12 AWG				
Rated wire size	2,5 mm ² / 12 AWG				2,5 mm ² / 12 AWG				
Wire stripping length	9 mm .354"				9 mm .354"				
Recommended screwdriver	3,5 mm .137"				3,5 mm .137"				
Protection	IP20 NEMA1				IP20 NEMA1				
Recommended torque	0,4 - 0,6 Nm 3.5 - 5.3 lb.in				0,4 - 0,6 Nm 3.5 - 5.3 lb.in				
Approvals	(pending for 12 V DC), (pending), ,								
Reference standards	CEI 947-7-1 / CEI 947-1 / CEI 1131-2 (in relevant parts) / CEI 60664-1 / CEM : IRC 1000-4-2, 3, 4, 5, 6.								

(1) Over 55°C, blocks have to be mounted on horizontal rail with 10 mm spacing between each block. For vertical rail mounting use temperature is 15°C less decreased.



	DC12	AC12	DC13	AC15
24 V	6 A	6 A	1 A	3 A
110/120 V	0,3 A	6 A	0,2 A	3 A
220/230 V	0,2 A	6 A	0,1 A	3 A

Description	Type	Order Code	Price
	RB 121-5VDC	1SNA645034R2300	15.53
	RB 121-12VDC	1SNA645069R0000	12.92
	RB 121-24VDC	1SNA645064R0100	9.77
	RB 121 A-24VAC/DC	1SNA645001R0300	12.43
	RB 121 A-48-60VAC/DC	1SNA645002R0400	13.46
	RB 121 A-115VAC/DC	1SNA645003R0500	14.91
	RB 121 A-230VAC/DC	1SNA645004R0400	15.53

Accessories see page 1/80

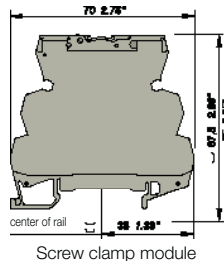
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Relays and optocouplers

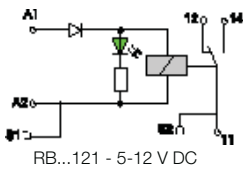
Relay Interfaces - R600 relay modules



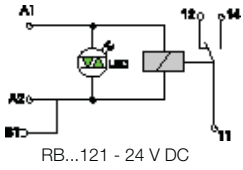
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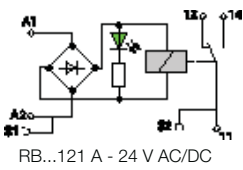
Screw clamp module



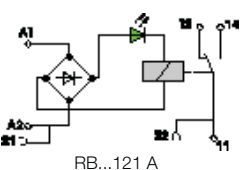
RB...121 - 5-12 V DC



RB...121 - 24 V DC



RB...121 A - 24 V AC/DC



RB...121 A - 48-60-115-230 V AC/DC

Relay : 1 SPDT low level contact 1 mA upto 6 A - 6 mm .236» spacing

Characteristics

Relay characteristics

COIL
 Rated voltage +20%, -15%
 on DC ; +10%, -10% on AC
 Frequency
 Power
 Rated current
 Drop-out voltage at 20°C
 Status device

	RB 121			RB 121 A				
Rated voltage	5 V DC	12 V DC	24 V DC	24 VAC/DC	48 V AC/DC	60 V AC/DC	115 V AC/DC	±10% on AC +10% -15% on DC
Frequency				50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Power	0,2 W	0,2 W	0,28 W	0,24 W	0,33 W	0,54 W	0,46 W	0,8 W
Rated current	40 mA	16 mA	12 mA	10 mA	7 mA	9 mA	4 mA	3,5 mA
Drop-out voltage at 20°C	1,2 V	2,2 V	1,2 V	4,5 V	8 V	8 V	17 V	27 V
Status device	green LED							

CONTACT

Type
 Voltage switching range min./max.
 Current switching range min./max.
 Load switching range
 AC1 min. / max.
 DC1 min. / max.
 Number of on-load operations
 Number of off-load operations
 Operating speed
 Bounce
 Insulation coil / contact
 Resistance to shock coil / contact
 Insulation contact / contact
 Ambient temperature
 storage
 operating

Type	1 SPDT								
Voltage switching range min./max.	5 V / 250 V AC								
Current switching range min./max.	1 mA / 6 A								
Load switching range	0,05 VA / 1500 VA (ohmic load)								
AC1 min. / max.	0,05 W / 140 W								
DC1 min. / max.	10 ⁵ on AC15								
Number of on-load operations	10 ⁷								
Number of off-load operations	10 ⁷								
Operating speed	F	5 ms	5 ms	5 ms	5 ms	5 ms	5 ms	6 ms	7 ms
	O	8 ms	8 ms	8 ms	8 ms	8 ms	8 ms	15 ms	16 ms
Bounce	1,2 ms								
Insulation coil / contact	4000 V RMS								
Resistance to shock coil / contact	4000 V RMS								
Insulation contact / contact	1000 V RMS								
Ambient temperature	-40°C to +80°C								
storage	-20°C to +70°C (1)								
operating	-20°C to +70°C (1)								

Other characteristics

Body material
 Wire
 size
 Rated wire size
 Wire stripping length
 Recommended screwdriver
 Protection
 Recommended torque

	Screw clamp	Spring clamp
Body material	grey	UL 94 V0
Wire	Solid wire	UL 94 V0
size	0,2 - 4 mm ² / 24 - 12 AWG	0,2 - 2,5 mm ² / 24 - 12 AWG
Rated wire size	2,5 mm ² / 12 AWG	0,22 - 2,5 mm ² / 24 - 12 AWG
Wire stripping length	9 mm .354"	2,5 mm ² / 12 AWG
Recommended screwdriver	3,5 mm .137"	9 mm .354"
Protection	IP20 NEMA1	3,5 mm .137"
Recommended torque	0,4 - 0,6 Nm 3.5 - 5.3 lb.in	IP20 NEMA1
		0,4 - 0,6 Nm 3.5 - 5.3 lb.in

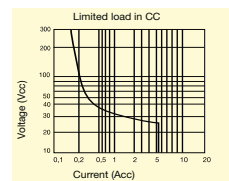
Approvals

UL (pending for 24 V DC), (pending), LRS, CE

Reference standards

CEI 947-7-1 / CEI 947-1 / CEI 1131-2 (in relevant parts) / CEI 60664-1 / CEM : IRC 1000-4-2, 3, 4, 5, 6.

(1) Over 55°C, blocks have to be mounted on horizontal rail with 10 mm spacing between each block. For vertical rail mounting use temperature is 15°C less decreased.



	DC12	AC12	DC13	AC15
24 V	6 A	6 A	1 A	3 A
110/120 V	0,3 A	6 A	0,2 A	3 A
220/230 V	0,2 A	6 A	0,1 A	3 A

Description	Type	Order Code	Price
	RB 121-5VDC	1SNA645036R2500	15.53
	RB 121-12VDC	1SNA645037R2600	15.53
	RB 121-24VDC	1SNA645065R0200	10.30
Relay module 1 SPDT low level	RB 121 A-24VAC/DC	1SNA645005R0700	12.43
	RB 121 A-48-60VAC/DC	1SNA645006R0000	13.46
	RB 121 A-115VAC/DC	1SNA645007R0100	14.91
	RB 121 A-230VAC/DC	1SNA645007R0100	14.91

Accessories see page 1/80



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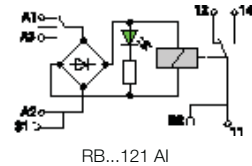
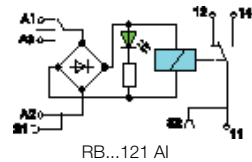
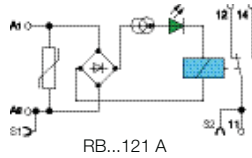
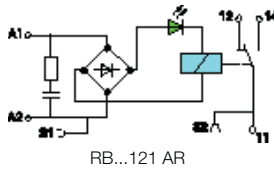
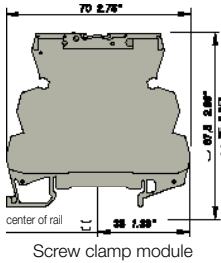
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Relays and optocouplers

Relay Interfaces - R600 relay modules



DIN 3



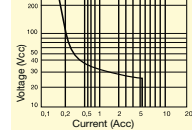
- Relay : 1 SPDT high level with switch or large coil voltage range or with leakage current protection
12 mm .472» spacing
- Relay : 1 SPDT low level with switch
12 mm .472» spacing

Characteristics

Relay characteristics	RB...121 AR		RB...121 AI		RB...121 AI		RB...121 A
COIL							
Rated voltage +20%, -15% on DC ; +10%, -10% on AC	115 V AC/DC	±10% on AC +10% -15% on DC 230 V AC/DC	24 VAC/DC	24 VAC/DC	24 VAC/DC	24 VAC/DC	60 to 253 VAC/DC
Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Power	2 W	2,8 W	0,24 W	0,24 W	0,24 W	0,24 W	1 W
Rated current	18 mA	12 mA	10 mA	10 mA	10 mA	10 mA	4 mA max.
Drop-out voltage at 20°C	17 V	27 V	4,5 V	4,5 V	4,5 V	4,5 V	15 V
Permissible leakage current	1,6 mA		1 mA		1 mA		1 mA
Status device	green LED		green LED		green LED		green LED
CONTACT							
Type	1 SPDT		1 SPDT		1 SPDT		1 SPDT
Voltage switching range min./max.	12 V / 250 V		5 V / 250 V		5 V / 250 V		12 V / 250 V
Current switching range min./max.	10 mA / 6 A		1 mA / 6 A		1 mA / 6 A		10 mA / 6 A
Load switching range							
AC1 min. / max.	0,6 VA / 1500 VA (ohmic load)		0,05 VA/1500 VA (ohmic load)		0,05 VA/1500 VA (ohmic load)		0,6 VA/1500 VA (ohmic load)
DC1 min. / max.	0,6 W / 140 W		0,05 W / 140 W		0,05 W / 140 W		0,6 W / 140 W
Number of on-load operations	10 ⁵ on AC15		10 ⁵ on AC15		10 ⁵ on AC15		10 ⁵ on AC15
Number of off-load operations	10 ⁷						
Operating speed	F 6 ms	7 ms	5 ms	5 ms	5 ms	5 ms	7 ms
	O 15 ms	16 ms	8 ms	8 ms	8 ms	8 ms	20 ms
Bounce							
Insulation coil / contact	4000 V RMS						
Resistance to shock coil / contact	4000 V RMS						
Insulation contact / contact	1000 V RMS						
Ambient temperature storage	-40°C to +80°C						
operating	-20°C to +70°C (1)						
Other characteristics							
Body material	grey			Screw clamp		UL 94 V0	
Wire	Solid wire			UL 94 V0		UL 94 V0	
size	0,2 - 4 mm ² / 24 - 12 AWG			0,2 - 2,5 mm ² / 24 - 12 AWG		0,2 - 2,5 mm ² / 24 - 12 AWG	
Stranded wire	0,22 - 2,5 mm ² / 24 - 12 AWG			0,22 - 2,5 mm ² / 24 - 12 AWG		0,22 - 2,5 mm ² / 24 - 12 AWG	
Rated wire size	2,5 mm ² / 12 AWG			2,5 mm ² / 12 AWG		2,5 mm ² / 12 AWG	
Wire stripping length	9 mm .354"			9 mm .354"		9 mm .354"	
Recommended screwdriver	3,5 mm .137"			3,5 mm .137"		3,5 mm .137"	
Protection	IP20 NEMA1			IP20 NEMA1		IP20 NEMA1	
Recommended torque	0,4 - 0,6 Nm 3.5 - 5.3 lb.in			0,4 - 0,6 Nm 3.5 - 5.3 lb.in		0,4 - 0,6 Nm 3.5 - 5.3 lb.in	
Approvals	c us, (pending), , , ,						

Reference standards CEI 947-7-1 / CEI 947-1 / CEI 1131-2 (in relevant parts) / CEI 60664-1 / CEM : IRC 1000-4-2, 3, 4, 5, 6.

(1) Over 55°C, blocks have to be mounted on horizontal rail with 10 mm spacing between each block. For vertical rail mounting use temperature is 15°C less decreased.



	DC12	AC12	DC13	AC15
24 V	6 A	6 A	1 A	3 A
110/120 V	0,3 A	6 A	0,2 A	3 A
220/230 V	0,2 A	6 A	0,1 A	3 A

Description	Type	Order Code	Price
Relay mod. 1SPDT high level w/leakage current protec.	RB 121 AR-115VAC/DC	1SNA645046R0700	27.44
Relay mod. 1SPDT high level with switch	RB 121 AR-230VAC/DC	1SNA645011R2400	27.44
Relay mod. 1SPDT high level with safety switch	RB 121 A 60-230VAC/DC	1SNA645020R0100	POA
Relay module 1SPDT low level with switch	RB 121 AI-24VAC/DC	1SNA645032R2100	34.67
Relay module 1SPDT low level with safety switch		1SNA645009R1300	34.67
Relay module 1SPDT low level with switch		1SNA645033R2200	34.67
Relay module 1SPDT low level with safety switch		1SNA645010R0700	34.67

Accessories see page 1/80



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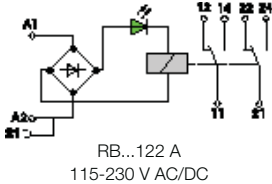
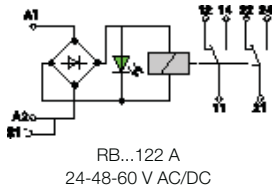
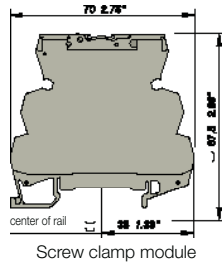
Relays and optocouplers

Relay Interfaces - R600 relay modules



DIN 3

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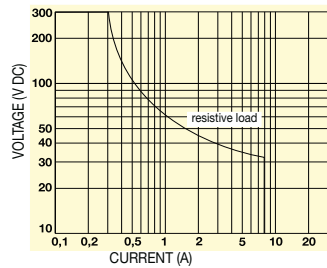
Relay : 1 DPDT low level contact 1 mA to 8 A - 12 mm .472» spacing

Characteristics

Relay characteristics	RB...122A				
	24 VAC/DC	48 V AC/DC	60 V AC/DC	115 V AC/DC	±10% on AC +10% -15% on DC 230 V AC/DC
COIL					
Rated voltage +20%, -15% on DC ; +10%, -10% on AC					
Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Power	0,48 W	0,62 W	0,96 W	0,58 W	1,15 W
Rated current	20 mA	13 mA	16 mA	5 mA	5 mA
Drop-out voltage at 20°C	5,4 V	8,8 V	8,8 V	20 V	10 V
Status device	green LED				
CONTACT					
Type	1 DPDT				
Voltage switching range min./max.	5 V / 250 V DC - 250 V AC				
Current switching range min./max.	1 mA / 8 A		1 mA / 5 A		
Load switching range					
AC1 min. / max.	5 mVA / 1500 VA				
DC1 min. / max.	5 mW / 192 W				
Number of on-load operations	10 ⁵				
Number of off-load operations	2 x 10 ⁷				
Operating speed	F				
	O				
Bounce	6 ms	10 ms	10 ms	6 ms	6 ms
Insulation coil / contact	10 ms	14 ms	14 ms	15 ms	15 ms
Resistance to shock coil / contact	1 ms				
Insulation contact / contact	3500 V RMS				
Ambient temperature storage	3500 V RMS				
operating	3500 V RMS (between 2 contacts)				
	-40°C to +80°C				
	-20°C to +70°C (1)				
Other characteristics	Screw clamp		Spring clamp		
Body material	grey		grey		
Wire	UL 94 V0		UL 94 V0		
size	Solid wire		Solid wire		
Stranded wire	0,2 - 4 mm ² / 24 - 12 AWG		0,2 - 2,5 mm ² / 24 - 12 AWG		
Rated wire size	0,22 - 2,5 mm ² / 24 - 12 AWG		2,5 mm ² / 12 AWG		
Wire stripping length	2,5 mm ² / 12 AWG		9 mm .354"		
Recommended screwdriver	9 mm .354"		3,5 mm .137"		
Protection	3,5 mm .137"		IP20 NEMA1		
Recommended torque	IP20 NEMA1		0,4 - 0,6 Nm 3.5 - 5.3 lb.in		
Approvals	UL, CE (pending), LRS, CE				
Reference standards	CEI 947-7-1 / CEI 947-1 / CEI 1131-2 (in relevant parts) / CEI 60664-1 / CEM : IRC 1000-4-2, 3, 4, 5, 6.				

(1) Over 55°C, blocks have to be mounted on horizontal rail with 10 mm spacing between each block. For vertical rail mounting use temperature is 15°C less decreased.

Max. DC load breaking capacity



Description	Type	Order Code	Price
Relay module 1 DPDT low level.	RB 122 A-24VAC/DC	1SNA645012R2500	17.61
	RB 122 A-48-60VAC/DC	1SNA645040R1500	19.67
	RB 122 A-115VAC/DC	1SNA645041R0200	24.85
	RB 122 A-230VAC/DC	1SNA645013R2600	24.85

Accessories see page 1/80



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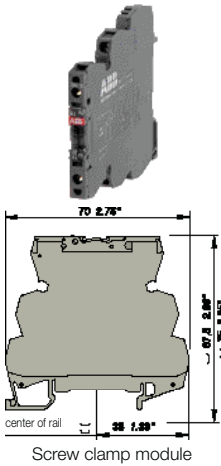
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Relays and optocouplers

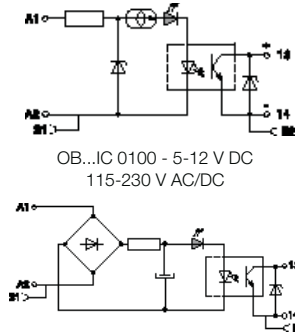
Optocouplers - R600



DIN 3



Screw clamp module



OB...IC 0100 - 5-12 V DC
115-230 V AC/DC

OB...IC 0100
24 V DC
24-48-60 V AC/DC

Optocoupler : 5 to 58 V DC output / 100 mA - 6 mm .236" spacing

Characteristics

Opto. characteristics	OB...IC 0100											
INPUT												
Input voltage +20% -15% on DC, +10% -10% on AC	5 V DC - 12 V DC		24 V DC		48 V AC/DC		60 V AC/DC		115 V AC/DC		230 V AC/DC	
Frequency					50 / 60 Hz		50 / 60 Hz		50 / 60 Hz		50 / 60 Hz	
Input current AC/DC	5 mA		9 mA		4 mA		4 mA		5 mA		7 mA / 16mA	
Pull-in voltage at Is=100%	4 V		4 V		15 V		25 V		25 V		60 VAC/70 VDC	
Switching time C / O	10 µs / 500 µs		10 µs / 500 µs		1000 Hz		5 ms / 20 ms		20 Hz		5 ms / 15 ms	
Operating frequency	1000 Hz		1000 Hz								20 Hz	
Permissible leakage current	0,9 mA		1 mA		0,9 mA		1,6 mA					
OUTPUT												
Output voltage	4,5 to 58 VDC											
Output current min.	1 mA											
Output current max.	100 mA											
Output leakage current at Umax.	< 50 µA											
Residual voltage at I max and U rated	1 V											
Frequency on inductive load	1,3 V											
Isolation Input / Output	2500 V RMS											
TEMPERATURE												
Ambient temperature storage	-40°C to +80°C											
operating	-20°C to +70°C (1)											
Other characteristics												
Body material	Screw clamp				Spring clamp							
Wire	UL 94 V0				UL 94 V0							
size	0,2 - 4 mm ² / 24 - 12 AWG				0,2 - 2,5 mm ² / 24 - 12 AWG							
Stranded wire	0,22 - 2,5 mm ² / 24 - 12 AWG				0,22 - 2,5 mm ² / 24 - 12 AWG							
Rated wire size	2,5 mm ² / 12 AWG				2,5 mm ² / 12 AWG							
Wire stripping length	9 mm .354"				9 mm .354"							
Recommended screwdriver	3,5 mm .137"				3,5 mm .137"							
Protection	IP20 NEMA1				IP20 NEMA1							
Recommended torque	0,4 - 0,6 Nm 3.5 - 5.3 lb.in				0,4 - 0,6 Nm 3.5 - 5.3 lb.in							
Approvals	cULus, (pending), LRS, CE											
Reference standards	CEI 947-7-1 / CEI 947-1 / CEI 1131-2 (in relevant parts) / CEI 60664-1 / CEM : IRC 1000-4-2, 3, 4, 5, 6.											

(1) Over 55°C, blocks have to be mounted on horizontal rail with 10 mm spacing between each block. For vertical rail mounting use temperature is 15°C less decreased.

Description	Type	Order Code	Price
Optocoupler module 100 mA/DC	OBIC 0100-5-12VDC	1SNA645047R0000	18.43
	OBIC 0100-24VDC	1SNA645021R2600	16.67
	OBIC 0100-48-60VAC/DC	1SNA645049R1200	20.61
	OBIC 0100-115-230VAC/DC	1SNA645022R2700	20.14

Accessories see page 1/80



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Relays and optocouplers

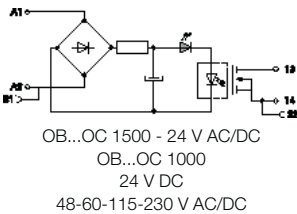
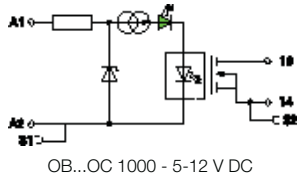
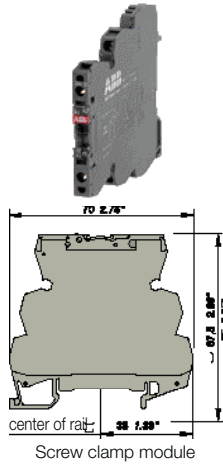
Optocouplers - R600



DIN 3

Optocoupler : 5 to 58 V DC output / 2 A - 6 mm .236" spacing

1



Characteristics

Opto. characteristics	OB...OC 1000		OB...OC 1500	OB...OC 1000				
	INPUT							
Input voltage +20% -15% on DC, +10% -10% on AC	5 V DC - 12 V DC		24 V DC	24 V AC/DC	48 V AC/DC	60 V AC/DC	115 V AC/DC	230 V AC/DC
Frequency	5 mA 9 mA		5,4 mA	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Input current	4 V		12 V	15 V	27 V	27 V	50 V	80 V
Pull-in voltage at Is=100%	15 µs / 250 µs		30 µs/400 µs	1 ms/7 ms	5 ms/20 ms	5 ms/20 ms	500 µs/10 ms	1 ms / 15 ms
Switching time C / O	2000 Hz		1000 Hz	60 Hz	20 Hz	20 Hz	50 Hz	35 Hz
Operating frequency	1 mA		0,8 mA	0,9 mA	1 mA	1 mA	0,3 mA	0,3 mA
Permissible leakage current								
OUTPUT								
Output voltage	4,5 to 58 VDC							
Output current min.	1 mA							
Output current max.	2 A							
Output leakage current at Umax.	< 50 µA							
Residual voltage at I max and U rated	typical 0,1 V max. 0,5 V							
Frequency on inductive load	2500 V RMS							
Isolation Input / Output	2500 V RMS							
TEMPERATURE								
Ambient temperature storage	-40°C to +80°C							
operating	-20°C to +70°C (1)							
Other characteristics								
Body material	Screw clamp UL 94 V0			Spring clamp UL 94 V0				
Wire	Solid wire			Solid wire				
Wire size	0,2 - 4 mm ² / 24 - 12 AWG			0,2 - 2,5 mm ² / 24 - 12 AWG				
Wire stripping length	Stranded wire 0,22 - 2,5 mm ² / 24 - 12 AWG			2,5 mm ² / 12 AWG				
Rated wire size	2,5 mm ² / 12 AWG			2,5 mm ² / 12 AWG				
Wire stripping length	9 mm .354"			9 mm .354"				
Recommended screwdriver	3,5 mm .137"			3,5 mm .137"				
Protection	IP20 NEMA1			IP20 NEMA1				
Recommended torque	0,4 - 0,6 Nm 3.5 - 5.3 lb.in			0,4 - 0,6 Nm 3.5 - 5.3 lb.in				
Approvals	cULus, (pending), LRS, CE							
Reference standards	CEI 947-7-1 / CEI 947-1 / CEI 1131-2 (in relevant parts) / CEI 60664-1 / CEM : IRC 1000-4-2, 3, 4, 5, 6.							

(1) Over 55°C, blocks have to be mounted on horizontal rail with 10 mm spacing between each block. For vertical rail mounting use temperature is 15°C less decreased.

Description	Type	Order Code	Price
Optocoupler module 2 A/DC	OBOC 1000-5-12VDC	1SNA645050R1700	25.88
	OBOC 1000-24VDC	1SNA645051R0400	24.27
	OBOC 1500-24VAC/DC	1SNA645025R2200	24.27
	OBOC 1000-48-60VAC/DC	1SNA645053R0600	25.88
	OBOC 1000-115VAC/DC	1SNA645026R2300	26.71
	OBOC 1000-230VAC/DC	1SNA645026R2300	26.71

Accessories see page 1/80



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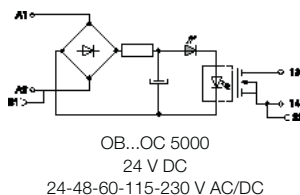
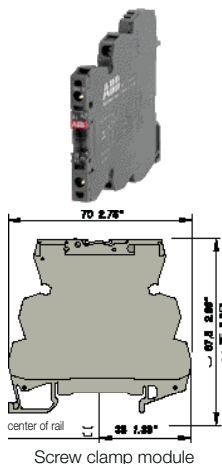
Relays and optocouplers

Optocouplers - R600



DIN 3

Optocoupler : 5 to 58 V DC output / 5A - 6 mm .236" spacing



Characteristics

Opto. characteristics	OB...OC 5000			
INPUT				
Input voltage +20% -15% on DC, +10% -10% on AC	24 V DC			115 V AC/DC 230 V AC/DC
Frequency				50 / 60 Hz 50 / 60 Hz
Input current	5,4 mA			4,2 mA 4 mA
Pull-in voltage at Is=100%	12 V			50 V 80 V
Switching time C / O	30 µs/400 µs			500 µs/10 ms 1 ms / 15 ms
Operating frequency	1000 Hz			50 Hz 35 Hz
Permissible leakage current	0,8 mA			0,3 mA 0,3 mA
OUTPUT				
Output voltage				4,5 to 58 VDC
Output current min.				1 mA
Output current max.				5 A
Output leakage current at Umax.				< 50 µA
Residual voltage at I max and U rated				typical 0,1 V max. 0,5 V
Frequency on inductive load				2500 V RMS
Isolation Input / Output				2500 V RMS
TEMPERATURE				
Ambient temperature storage				-40°C to +80°C
operating				-20°C to +70°C (1)
Other characteristics		Screw clamp		Spring clamp
Body material		grey		grey
Wire		UL 94 V0		UL 94 V0
size		0,2 - 4 mm ² / 24 - 12 AWG		0,2 - 2,5 mm ² / 24 - 12 AWG
Rated wire size		0,22 - 2,5 mm ² / 24 - 12 AWG		0,22 - 2,5 mm ² / 24 - 12 AWG
Wire stripping length		2,5 mm ² / 12 AWG		2,5 mm ² / 12 AWG
Recommended screwdriver		9 mm .354"		9 mm .354"
Protection		3,5 mm .137"		3,5 mm .137"
Recommended torque		IP20 NEMA1		IP20 NEMA1
Approvals		0,4 - 0,6 Nm 3.5 - 5.3 lb.in		0,4 - 0,6 Nm 3.5 - 5.3 lb.in
Reference standards		CEI 947-7-1 / CEI 947-1 / CEI 1131-2 (in relevant parts) / CEI 60664-1 / CEM : IRC 1000-4-2, 3, 4, 5, 6.		

(1) Over 55°C, blocks have to be mounted on horizontal rail with 10 mm spacing between each block. For vertical rail mounting use temperature is 15°C less decreased.

Description	Type	Order Code	Price
Optocoupler module 5 A/DC	OBOC 5000-24VDC	1SNA645024R2100	28.10
	OBOC 5000-115VAC/DC	1SNA645058R1300	36.24
	OBOC 5000-230VAC/DC	1SNA645059R1400	36.74

Accessories see page 1/80



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Relays and optocouplers

Optocouplers - R600



DIN 3

Optocoupler : 24 to 400 V AC output / 2 A max. - 6 or 12 mm spacing

Characteristics

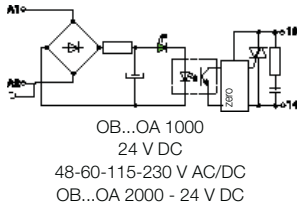
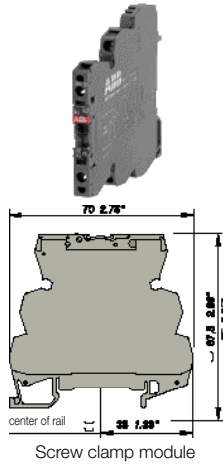
Opto. characteristics	OB...OA 1000							OB...OA 2000
	24 V DC	48 V AC/DC	60 V AC/DC	115 V AC/DC	230 V AC/DC	24 V DC		
INPUT								
Input voltage +20% -15% on DC, +10% -10% on AC	24 V DC	48 V AC/DC	60 V AC/DC	115 V AC/DC	230 V AC/DC	24 V DC		
Frequency		50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz			
Input current	3,6 mA	4,3 mA	5,5 mA	4,15 mA	4,6 mA	3,6 mA		
Pull-in voltage at Is=100%	14 V	15 V	18 V	60 V	135 V	14 V		
Switching time C / O	150 µs/1ms	3 ms / 30 ms		2,2 ms/18 ms	2,5 ms/25 ms	150 µs/1 ms		
Operating frequency	500 Hz	20 Hz		25 Hz	20 Hz	500 Hz		
Permissible leakage current	1 mA	1 mA		1 mA	1 mA	1 mA		
OUTPUT								
Output voltage	24 to 400 V AC							
Frequency	50 / 60 Hz							
Output current min.	25 mA							
Output current max.	1 A						2 A	
Output leakage current at Umax.	< 0,5 mA							
Residual voltage at I max and U rated	typical 1 V max. 1,6 V							
Frequency on inductive load								
Isolation Input / Output	2500 V RMS							
TEMPERATURE								
Ambient temperature storage	- 40°C to + 80°C							
operating	-20°C to +70°C (1)							
Other characteristics	Screw clamp			Spring clamp				
Body material	grey UL 94 V0			UL 94 V0				
Wire	Solid wire			Solid wire				
Wire size	0,2 - 4 mm ² / 24 - 12 AWG			0,2 - 2,5 mm ² / 24 - 12 AWG				
Stranded wire	0,22 - 2,5 mm ² / 24 - 12 AWG			0,22 - 2,5 mm ² / 24 - 12 AWG				
Rated wire size	2,5 mm ² / 12 AWG			2,5 mm ² / 12 AWG				
Wire stripping length	9 mm .354"			9 mm .354"				
Recommended screwdriver	3,5 mm .137"			3,5 mm .137"				
Protection	IP20 NEMA1			IP20 NEMA1				
Recommended torque	0,4 - 0,6 Nm 3.5 - 5.3 lb.in			0,4 - 0,6 Nm 3.5 - 5.3 lb.in				
Approvals	c us, (pending), , LRS,							
Reference standards	CEI 947-7-1 / CEI 947-1 / CEI 1131-2 (in relevant parts) / CEI 60664-1 / CEM : IRC 1000-4-2, 3, 4, 5, 6.							

(1) Over 55°C, blocks have to be mounted on horizontal rail with 10 mm spacing between each block. For vertical rail mounting use temperature is 15°C less decreased.

Description	Type	Order Code	Price
Optocoupler module 1 A/AC 6 mm spac.	OBOA 1000-24VDC	1SNA645027R2400	24.27
	OBOA 1000-48-60VAC/DC	1SNA645061R0600	26.09
	OBOA 1000-115VAC/DC	1SNA645062R0700	26.20
	OBOA 1000-230VAC/DC	1SNA645028R0500	26.71
Optocoupler module 2A/AC 12 mm spac.	OBOA 2000-24VDC	1SNA645029R0600	31.05

Accessories see page 1/80

1



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Logic relays

CL Range

Stand Alone

Expandable

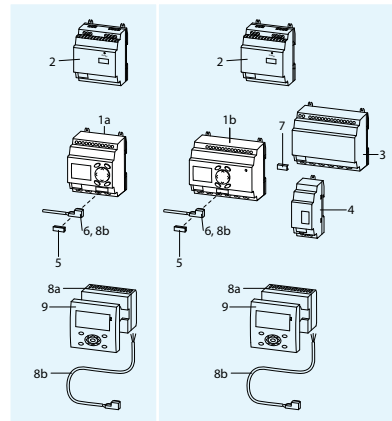
Expansions

	Type	Order Code	Price
	CL-LSR,C12AC1	1SVR440712R0300	POA
	CL-LSR,CX12AC1	1SVR440712R0200	187.56
	CL-LSR,12AC2	1SVR440713R0100	210.43
	CL-LSR,C12AC2	1SVR440713R0300	226.44
	CL-LSR,CX12AC2	1SVR440713R0200	191.13
	CL-LSR,C12DC1	1SVR440710R0300	POA
	CL-LSR,CX12DC1	1SVR440710R0200	POA
	CL-LSR,12DC2	1SVR440711R0100	POA
	CL-LSR,C12DC2	1SVR440711R0300	235.49
	CL-LSR,CX12DC2	1SVR440711R0200	185.29
	CL-LST,C12DC2	1SVR440711R1300	POA
	CL-LST,CX12DC2	1SVR440711R1200	POA
	CL-LMR,C18AC1	1SVR440722R0300	POA
	CL-LMR,CX18AC1	1SVR440722R0200	POA
	CL-LMR,C18AC2	1SVR440723R0300	284.78
	CL-LMR,CX18AC2	1SVR440723R0200	POA
	CL-LMR,C18DC1	1SVR440720R0300	POA
	CL-LMR,CX18DC1	1SVR440720R0200	POA
	CL-LMR,C18DC2	1SVR440721R0300	256.42
	CL-LMR,CX18DC2	1SVR440721R0200	POA
	CL-LMT,C20DC2	1SVR440721R1300	POA
	CL-LMT,CX20DC2	1SVR440721R1200	POA
	CL-LER,20	1SVR440709R5000	POA
	CL-LER,18AC2	1SVR440723R0000	81.79
	CL-LER,18DC2	1SVR440721R0000	POA
	CL-LET,20DC2	1SVR440721R1000	POA
	CL-LEC,C1000	1SVR440709R0000	POA
Digital inputs	8	8	8
Usable as Analogue inputs	2	2	
Relay outputs	4	4	4
Transistor outputs			4
Display and keypad	■	■	■
Realtime clock	■	■	■
Expandable	1	1	1

Rated supply voltage U_e

12 V DC																				
24 V DC																				
24 V AC																				
110 - 240 V AC																				

Stand alone Expandable

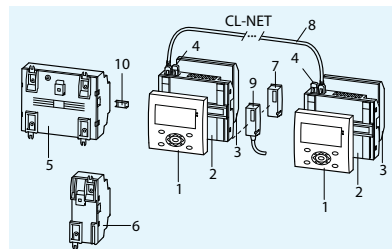


- 1a Logic relay CL-LS..
- 1b Expandable logic relay CL-LM..
- 2 Power supply CP-D...
- 3 I/O expansion CL-LER..., CL-LET.. for logic relays CL-LM..
- 4 Coupler unit CL-LEC.. for remote expansion of logic relays CL-LM..
- 5 Memory module CL-LAS.MD003 for logic relays CL-LS., CL-LM..
- 6 Connecting cable CL-LAS.TK001, CL-LAS.TK002 to connect PC
- 7 CL-LINK plug CL-LAS.TK011 to connect expansion to logic relays CL-LM..
- 8a Remote display connection module CL-LDC.S..
- 8b Connecting cable CL-LAD.TK007 to connect a remote displays to a logic relay
- 9 Display module CL-LDD..

Display Systems

Type	Order Code	Price
CL-LDR,16AC2	1SVR440853R0000	POA
CL-LDR,16DC2	1SVR440851R0000	POA
CL-LDR,17DC2	1SVR440851R2000	POA
CL-LDT,16DC2	1SVR440851R1000	POA
CL-LDT,17DC2	1SVR440851R3000	POA
Digital inputs	12	12
Analogue inputs	4	4
Analog outputs	1	1
Relay outputs	4	4
Transistor outputs	4	4

Display system → Compact HMI logic relay



- 1 Display module CL-LDD..
 - 2 Display base module CL-LDC.LN..
 - 3 Display I/O module CL-LDR., CL-LDT..
 - 4 Termination resistor CL-LAD.TK009
 - 5 I/O expansion CL-LER..., CL-LET..
 - 6 Coupler unit CL-LEC.. for remote expansion
 - 7 Memory module CL-LAD.MD004 for display base module
 - 8 Connecting cable CL-LAD.TK002, CL-LAD.TK003, CL-LAD.TK004
 - 9 Connecting cable CL-LAD.TK001, CL-LAD.TK011 to connect PC
 - 10 CL-LINK plug CL-LAS.TK011 for expansion of logic relays CL-LM..
- e.g. door of switchgear cabinet



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Accessories

CL range

Type	For logic relay	For display system	Description	Order Code	Price
Display modules					
CL-LDD.XK	■	■	Graphic display, 132 x 64 pixels	1SVR440839R4500	7.43
CL-LDD.K	■	■	Graphic display, 132 x 64 pixels, with keypad	1SVR440839R4400	158.27
Remote display connection modules					
CL-LDC.SDC2	■	■	Module to displace display from the logic relay, 5 m, length adjustable, 24 V DC	1SVR440841R0000	6.51
CL-LDC.SAC2	■	■	Module to displace display from the logic relay, 5 m, length adjustable, 100-240 V AC	1SVR440843R0000	7.33
Display base modules					
CL-LDC.LDC2	-	■	CPU / power supply, 24 V DC	1SVR440821R0000	3.55
CL-LDC.LAC2	-	■	CPU / power supply, 100-240 V AC	1SVR440823R0000	2.21
CL-LDC.LNDC2	-	■	CPU / power supply, networking-compatible (CL-NET), 24 V DC	1SVR440821R1000	1.96
CL-LDC.LNAC2	-	■	CPU / power supply, networking-compatible (CL-NET), 100-240 V AC	1SVR440823R1000	1.96
Accessories for logic relays and display system					
CL-LAS.PS002	■	■	Software for programming and control of CL range devices	1SVR440799R8000	171.54
CL-LAS.MD003	■	-	Memory module for logic relays (32 kB)	1SVR440799R7000	POA
CL-LAD.MD004	-	■	Memory module for display base modules (256 kB)	1SVR440899R7000	POA
CL-LAS.TK001	■	-	Cable with serial interface to connect PC and logic relay (length 2m)	1SVR440799R6000	81.79
CL-LAD.TK001	-	■	Cable with serial interface to connect PC and display base module (length 2 m)	1SVR440899R6000	POA
CL-LAS.TK002	■	-	Cable with USB interface to connect PC and logic relay	1SVR440799R6100	136.16
CL-LAD.TK011	-	■	Cable with USB interface to connect PC and display base module	1SVR440899R6700	POA
CL-LAD.TK002	-	■	Network cable (CL-NET) to connect 2 display base modules (length 0.3 m)	1SVR440899R6100	POA
CL-LAD.TK003	-	■	Network cable (CL-NET) to connect 2 display base modules (length 0.8 m)	1SVR440899R6200	POA
CL-LAD.TK004	-	■	Network cable (CL-NET) to connect 2 display base modules (length 1.5 m)	1SVR440899R6300	POA
CL-LAD.TK007	■	-	Cable for point-to-point connection of remote-display connection module and logic relay, length adaptable (length 2 m)	1SVR440899R6600	POA
CL-LAD.TK005	-	■	Cable for point-to-point connection of remote display connection modules and display base module, length adaptable (length 5 m)	1SVR440899R6400	POA
CL-LAD.TK006	-	■	Cable for point-to-point connection of 2 display base modules, length adaptable (length 5 m)	1SVR440899R6500	POA
CL-LAS.TK011	■	■	Spare plug (CL-LINK) for connection of logic relay to expansion	1SVR440799R5100	POA
CL-LAD.TK009	-	■	Termination resistor (2 pieces)	1SVR440899R6900	POA
CL-LAS.FD001	■	-	Fixing brackets for screw mounting of logic relay, expansion, display base module (9 pieces)	1SVR440799R5000	POA
CL-LAD.FD002	-	■	Tool for mounting of display modules	1SVR440899R3000	POA
CL-LAS.TD001	■	-	Input-/ output simulator with wall power supply, fits to CL-LSR and CL-LST. Rated input voltage 100-240 V AC, rated output voltage 24 V DC	1SVR440793R0000	110.35
CL-LAD.FD001	-	■	Protective cover, transparent, for harsh environmental conditions and application in the food industry	1SVR440899R1000	POA
CL-LAD.FD011	-	■	Protective cover, transparent, and sealable	1SVR440899R2000	POA
Power supplies					
CL-D 24/0.42	■	-	24 V DC / 0.42 A; Input 100 - 240 V AC	1SVR427041R0000	55.19
CL-D 24/1.3	■	-	24 V DC / 1.3 A; Input 100 - 240 V AC		POA



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Installation equipment



Miniature circuit breakers

S200 series MCBs	2/4
S280 series MCBs	2/26
S800 series MCBs	2/27

Earth leakage protection

F200 series RCCBs	2/47
DDA200 series RCB blocks	2/49
DS201 series RCBOs	2/51
DS800 series RCBOs	2/54
DS271 series RCBOs	2/55
Accessories	2/57

Digital meters

ODIN and DELTA meters	2/60
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Modular devices

Modular devices	2/61
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Installation equipment



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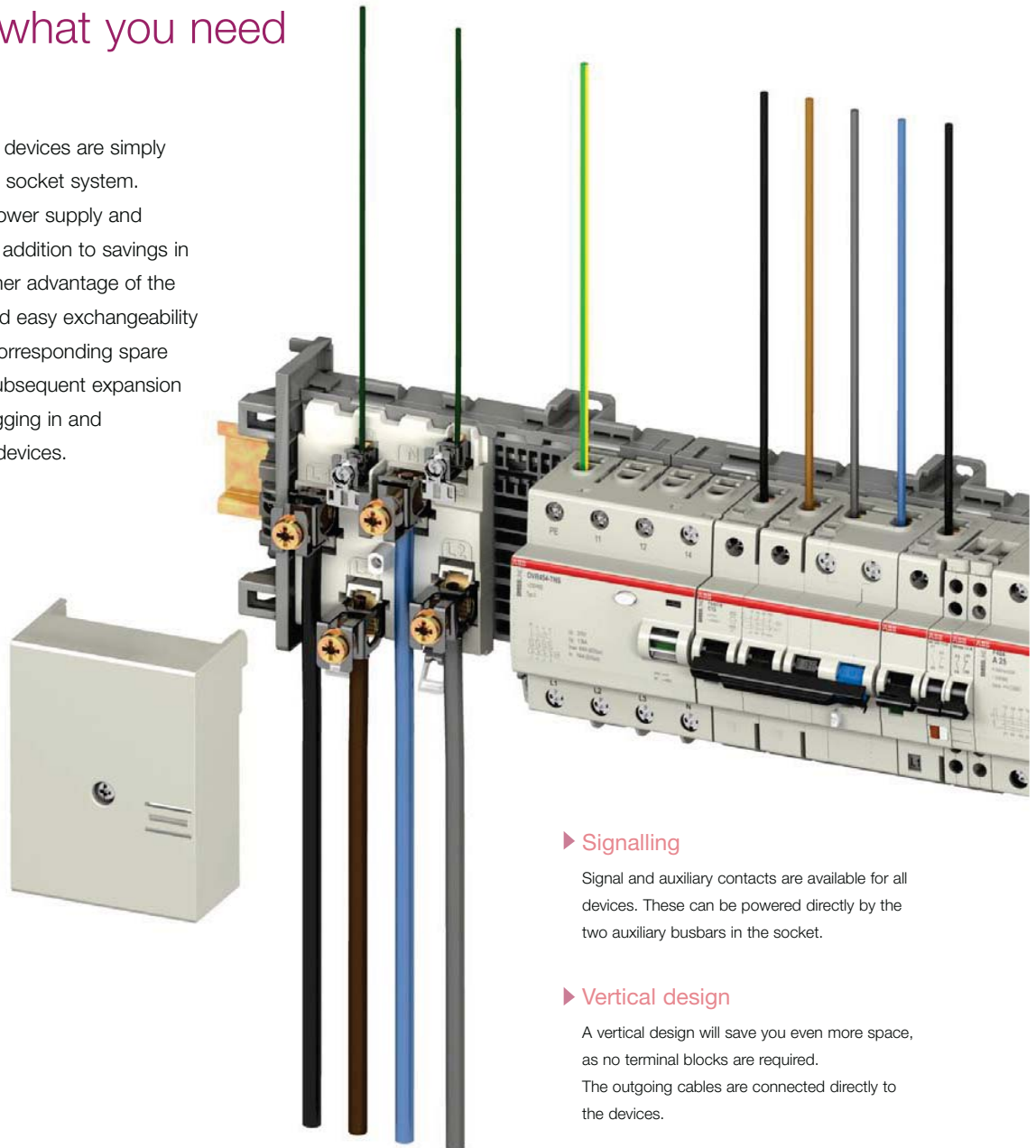
New Product Smisline TP - coming soon

Plan exactly what you need

► The idea

SMISLINE protection devices are simply snapped into a plug-in socket system. The arduous task of power supply and connection is done. In addition to savings in time and money, another advantage of the system is the quick and easy exchangeability of the devices. If the corresponding spare capacity is planned, subsequent expansion consists merely of plugging in and connecting additional devices.

2



► Signalling

Signal and auxiliary contacts are available for all devices. These can be powered directly by the two auxiliary busbars in the socket.

► Vertical design

A vertical design will save you even more space, as no terminal blocks are required. The outgoing cables are connected directly to the devices.

► Collective alarm

A collective alarm can easily be implemented using the signal contact SK400 SA. A very good space-saving arrangement is created when the signal contact is mounted to the left or right of the miniature circuit breaker.

► Flexibility up to the last minute

SMISLINE makes it possible to press ahead with planning, even before all the details of a system are known. Loads can be easily reassigned. Even if the usage of an entire installation is completely changed, the effort involved remains small.

► Motor starter units or external devices

You can create varied combinations of devices using a combi module. For example, a motor protection switch, together with a contactor can be combined to form one single unit and plugged in as a whole. External devices can be integrated into the system via universal adapters.

► Freedom to design and arrange

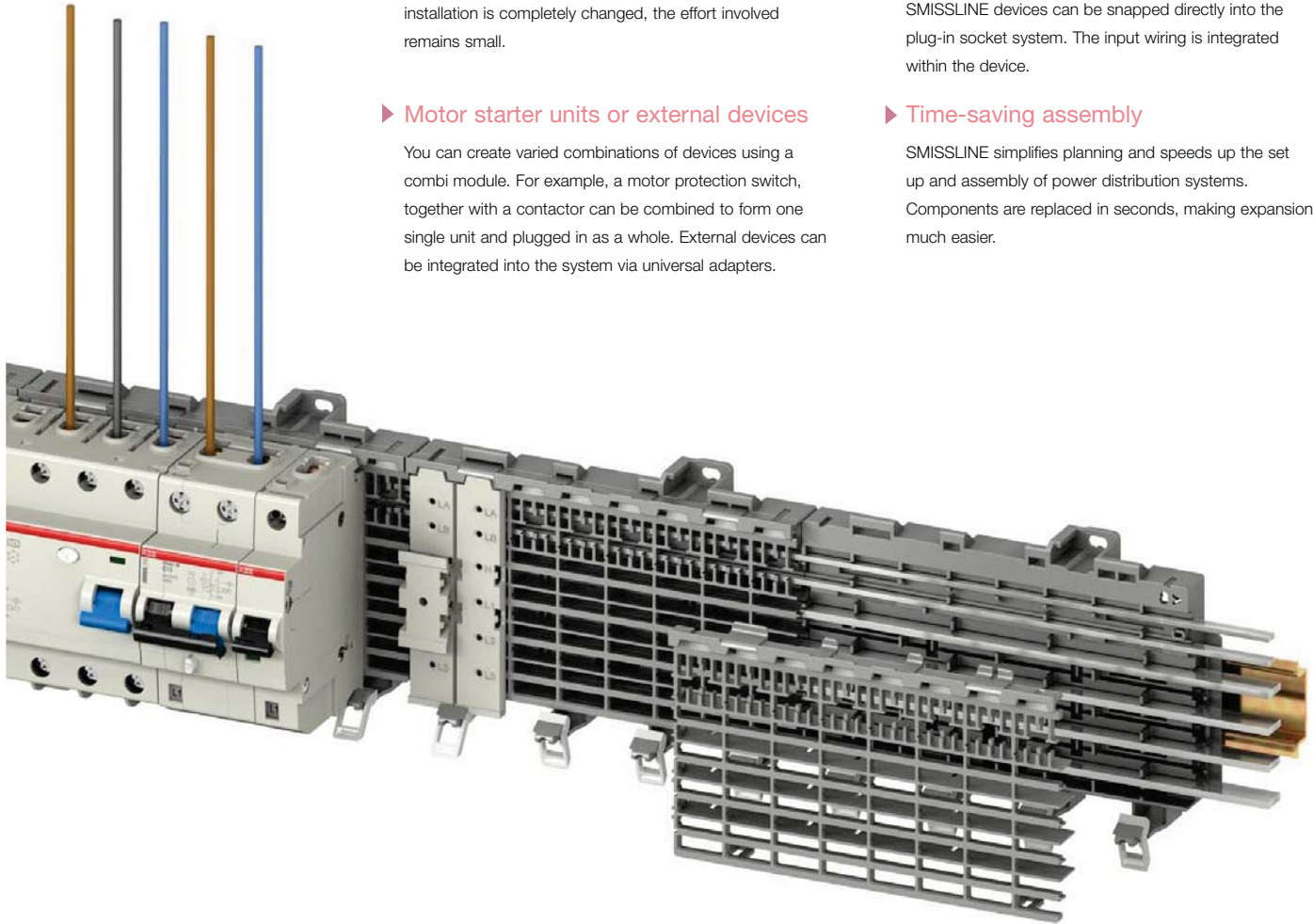
SMISLINE gives you freedom of choice: Mixed-pole arrangement of all devices next to each other. Plugs in directly

SMISLINE devices can be snapped directly into the plug-in socket system. The input wiring is integrated within the device.

► Time-saving assembly

SMISLINE simplifies planning and speeds up the set up and assembly of power distribution systems.

Components are replaced in seconds, making expansion much easier.



► The new pluggable touch proof busbar system, bringing power and safety together.

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Installation equipment

Tripping characteristics

Tripping characteristics

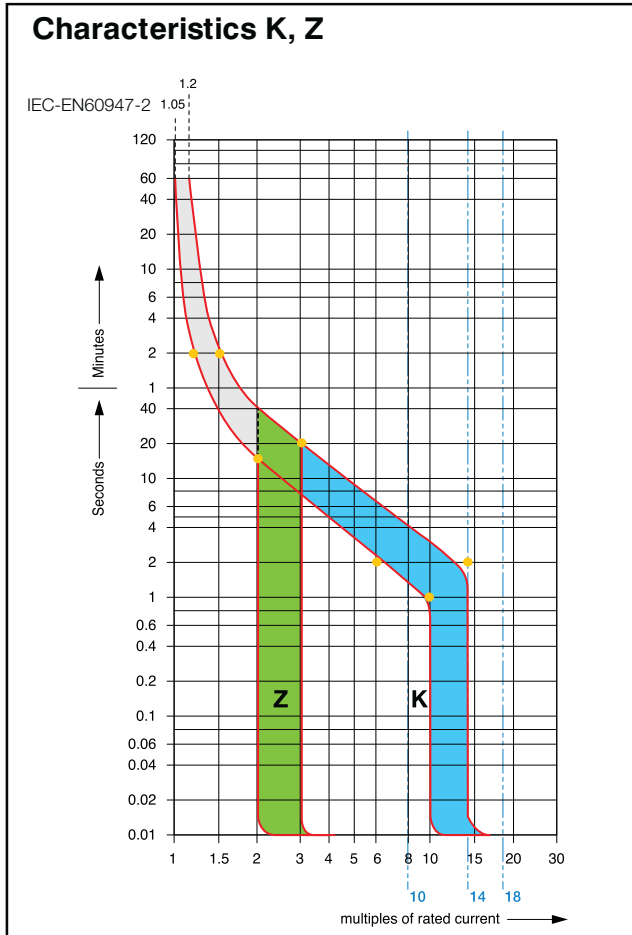
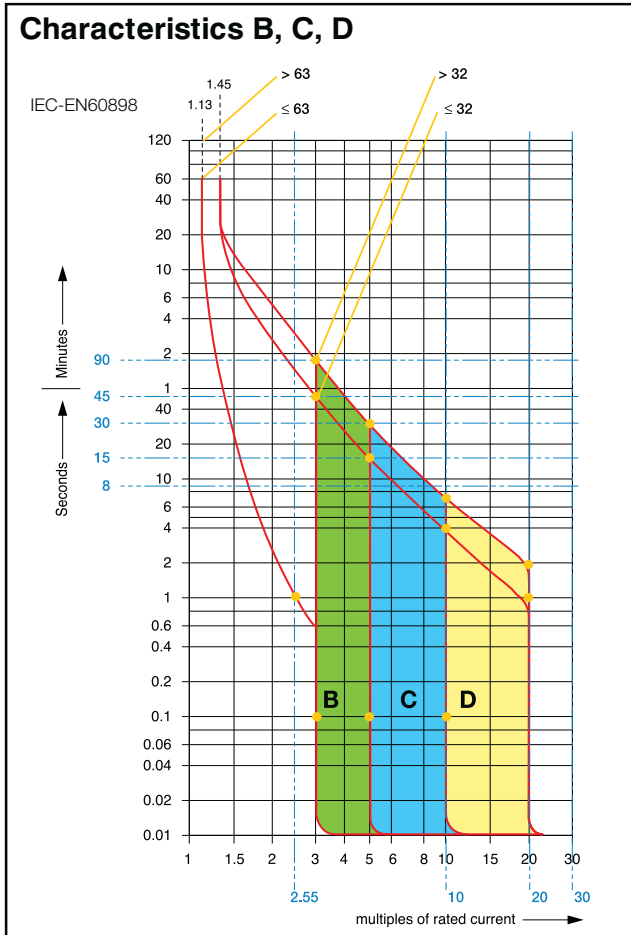
Acc. to	Tripping characteristic and rated current	Thermal release ²⁾		Tripping time	Electromagnetic release ¹⁾		Tripping time
		Current: conventional non-tripping c.	conventional tripping c.		Currents: hold current surges	trip at least at	
IEC/EN 60898	B 6 to 63 A	$1.13 \cdot I_n$	$1.45 \cdot I_n$	> 1 h < 1 h	$3 \cdot I_n$	$5 \cdot I_n$	> 0.1 s < 0.1 s
	C 0.5 to 63 A	$1.13 \cdot I_n$	$1.45 \cdot I_n$	> 1 h < 1 h	$5 \cdot I_n$	$10 \cdot I_n$	> 0.1 s < 0.1 s
	D 0.5 to 63 A	$1.13 \cdot I_n$	$1.45 \cdot I_n$	> 1 h < 1 h	$10 \cdot I_n$	$20 \cdot I_n$	> 0.1 s < 0.1 s
DIN VDE 0660/9.82	K 0.5 to 63 A	$1.05 \cdot I_n$	$1.2 \cdot I_n$	> 1 h < 1 h	not applicable		
IEC/EN 60947-2 DIN VDE 0660 8/69 Part 101		$1.05 \cdot I_n$	$1.2 \cdot I_n$ $1.5 \cdot I_n$ $6.0 \cdot I_n$	> 2 h < 1 h ³⁾ < 2 min. ³⁾ > 2 s (T1)	$10 \cdot I_n$	$14 \cdot I_n$	> 0.2 s < 0.2 s
DIN VDE 0660/9.82	Z 0.5 to 63 A	$1.05 \cdot I_n$	$1.2 \cdot I_n$	> 1 h < 1 h	not applicable		
IEC/EN 60947-2 DIN VDE 0660 8/69 Part 101		$1.05 \cdot I_n$	$1.2 \cdot I_n$ $1.5 \cdot I_n$ $6.0 \cdot I_n$	> 2 h < 1 h ³⁾ < 2 min. ³⁾ > 2 s (T1)	$2 \cdot I_n$	$3 \cdot I_n$	> 0.2 s < 0.2 s

2

1) The indicated tripping values of electromagnetic tripping devices apply to a frequency range of 16 2/3...60 Hz. In the case of diverging frequencies or direct current, see paragraph "Variation of tripping threshold of MCBs, according to network frequency" (page 6/7)

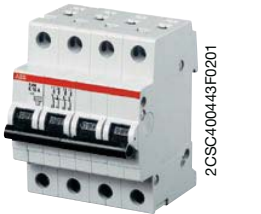
2) The thermal releases are calibrated to a nominal reference ambient temperature; for Z and K, the value is 20 °C, for B and C = 30 °C. In the case of higher ambient temperatures, the current values fall by ca. 6 % for each 10 K temperature rise.

3) As from operating temperature (after $I_1 > 1$ h or, as applicable, 2 h).



System ProM compact

S200-B series 6kA



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2CSC400002D0208

Type B 6kA

Rated Current (A)	Single Pole	Product Hierarchy 2400004	
		Order Code	Price
6	S201-B6	2CDS251001R0065	8.95
10	S201-B10	2CDS251001R0105	8.95
16	S201-B16	2CDS251001R0165	POA
20	S201-B20	2CDS251001R0205	8.95
25	S201-B25	2CDS251001R0255	8.95
32	S201-B32	2CDS251001R0325	8.95
40	S201-B40	2CDS251001R0405	8.95
50	S201-B50	2CDS251001R0505	9.25
63	S201-B63	2CDS251001R0635	9.70

Rated Current (A)	Double Pole	Order Code	Price
6	S202-B6	2CDS252001R0065	24.49
10	S202-B10	2CDS252001R0105	23.22
16	S202-B16	2CDS252001R0165	23.22
20	S202-B20	2CDS252001R0205	23.22
25	S202-B25	2CDS252001R0255	23.22
32	S202-B32	2CDS252001R0325	23.22
40	S202-B40	2CDS252001R0405	24.49
50	S202-B50	2CDS252001R0505	25.10
63	S202-B63	2CDS252001R0635	26.30

Rated Current (A)	Triple Pole	Order Code	Price
6	S203-B6	2CDS253001R0065	34.55
10	S203-B10	2CDS253001R0105	33.96
16	S203-B16	2CDS253001R0165	33.96
20	S203-B20	2CDS253001R0205	33.96
25	S203-B25	2CDS253001R0255	33.96
32	S203-B32	2CDS253001R0325	33.96
40	S203-B40	2CDS253001R0405	34.55
50	S203-B50	2CDS253001R0505	35.76
63	S203-B63	2CDS253001R0635	38.75

Rated Current (A)	Four Pole	Order Code	Price
6	S204-B6	2CDS254001R0065	92.21
10	S204-B10	2CDS254001R0105	84.75
16	S204-B16	2CDS254001R0165	84.75
20	S204-B20	2CDS254001R0205	84.75
25	S204-B25	2CDS254001R0255	102.98
32	S204-B32	2CDS254001R0325	84.75
40	S204-B40	2CDS254001R0405	111.46
50	S204-B50	2CDS254001R0505	88.96
63	S204-B63	2CDS254001R0635	84.75

System ProM compact S200-C series 6kA

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2CSC400411F0201



2CSC400413F0201



2CSC400415F0201



Type C 6kA

Rated Current (A)	Single Pole	Product Hierarchy 2400004	
		Order Code	Price
1	S201-C1	2CDS251001R0014	9.39
2	S201-C2	2CDS251001R0024	9.39
3	S201-C3	2CDS251001R0034	9.39
4	S201-C4	2CDS251001R0044	9.25
6	S201-C6	2CDS251001R0064	8.95
8	S201-C8	2CDS251001R0084	8.96
10	S201-C10	2CDS251001R0104	8.95
13	S201-C13	2CDS251001R0134	8.96
16	S201-C16	2CDS251001R0164	8.95
20	S201-C20	2CDS251001R0204	8.95
25	S201-C25	2CDS251001R0254	8.95
32	S201-C32	2CDS251001R0324	8.95
40	S201-C40	2CDS251001R0404	8.95
50	S201-C50	2CDS251001R0504	9.25
63	S201-C63	2CDS251001R0634	9.70

Rated Current (A)	Double Pole	Order Code	Price
1	S202-C1	2CDS252001R0014	26.98
2	S202-C2	2CDS252001R0024	25.10
3	S202-C3	2CDS252001R0034	25.10
4	S202-C4	2CDS252001R0044	25.10
6	S202-C6	2CDS252001R0064	24.49
8	S202-C8	2CDS252001R0084	24.49
10	S202-C10	2CDS252001R0104	23.22
13	S202-C13	2CDS252001R0134	23.22
16	S202-C16	2CDS252001R0164	23.22
20	S202-C20	2CDS252001R0204	23.22
25	S202-C25	2CDS252001R0254	23.22
32	S202-C32	2CDS252001R0324	23.22
40	S202-C40	2CDS252001R0404	24.49
50	S202-C50	2CDS252001R0504	25.10
63	S202-C63	2CDS252001R0634	26.30

Rated Current (A)	Triple Pole	Order Code	Price
1	S203-C1	2CDS253001R0014	37.58
2	S203-C2	2CDS253001R0024	36.82
3	S203-C3	2CDS253001R0034	36.82
4	S203-C4	2CDS253001R0044	36.82
6	S203-C6	2CDS253001R0064	34.55
8	S203-C8	2CDS253001R0084	34.55
10	S203-C10	2CDS253001R0104	33.96
13	S203-C13	2CDS253001R0134	33.96
16	S203-C16	2CDS253001R0164	33.96
20	S203-C20	2CDS253001R0204	33.96
25	S203-C25	2CDS253001R0254	33.96
32	S203-C32	2CDS253001R0324	33.96
40	S203-C40	2CDS253001R0404	34.55
50	S203-C50	2CDS253001R0504	36.82
63	S203-C63	2CDS253001R0634	38.75

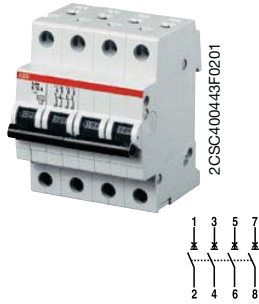


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System ProM compact

S200 C series 6kA



Type C 6kA

Rated Current (A)	Four Pole	Product Hierarchy 2400004	
		Order Code	Price
1	S204-C1	2CDS251004R0014	POA
2	S204-C2	2CDS251004R0024	POA
3	S204-C3	2CDS251004R0034	22.76
4	S204-C4	2CDS251004R0044	23.66
6	S204-C6	2CDS251004R0064	25.71
8	S204-C8	2CDS251004R0084	25.71
10	S204-C10	2CDS251004R0104	POA
13	S204-C13	2CDS251004R0134	50.78
16	S204-C16	2CDS251004R0164	52.84
20	S204-C20	2CDS251004R0204	63.67
25	S204-C25	2CDS251004R0254	71.13
32	S204-C32	2CDS251004R0324	POA
40	S204-C40	2CDS251004R0404	74.63
50	S204-C50	2CDS251004R0504	77.59
63	S204-C63	2CDS251004R0634	89.55

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System ProM compact S200-D series 6kA

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2CSC400413F0201



2CSC400415F0201



Type D 6kA

Rated Current (A)	Single Pole	Product Hierarchy 2400004	
		Order Code	Price
1	S201-D1	2CDS251001R0011	12.48
2	S201-D2	2CDS251001R0021	12.36
3	S201-D3	2CDS251001R0031	12.36
4	S201-D4	2CDS251001R0041	12.13
6	S201-D6	2CDS251001R0061	11.78
8	S201-D8	2CDS251001R0081	11.78
10	S201-D10	2CDS251001R0101	10.82
13	S201-D13	2CDS251001R0131	10.82
16	S201-D16	2CDS251001R0161	10.82
20	S201-D20	2CDS251001R0201	10.82
25	S201-D25	2CDS251001R0251	10.82
32	S201-D32	2CDS251001R0321	10.82
40	S201-D40	2CDS251001R0401	11.78
50	S201-D50	2CDS251001R0501	12.36
63	S201-D63	2CDS251001R0631	12.48

Rated Current (A)	Double Pole	Order Code	Price
1	S202-D1	2CDS252001R0011	35.70
2	S202-D2	2CDS252001R0021	35.38
3	S202-D3	2CDS252001R0031	35.38
4	S202-D4	2CDS252001R0041	34.67
6	S202-D6	2CDS252001R0061	33.72
8	S202-D8	2CDS252001R0081	33.72
10	S202-D10	2CDS252001R0101	30.90
13	S202-D13	2CDS252001R0131	30.90
16	S202-D16	2CDS252001R0161	30.90
20	S202-D20	2CDS252001R0201	30.90
25	S202-D25	2CDS252001R0251	30.90
32	S202-D32	2CDS252001R0321	30.90
40	S202-D40	2CDS252001R0401	33.72
50	S202-D50	2CDS252001R0501	35.38
63	S202-D63	2CDS252001R0631	35.70

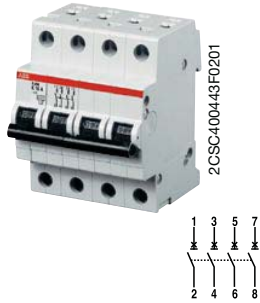
Rated Current (A)	Triple Pole	Order Code	Price
1	S203-D1	2CDS253001R0011	52.95
2	S203-D2	2CDS253001R0021	52.48
3	S203-D3	2CDS253001R0031	52.48
4	S203-D4	2CDS253001R0041	51.48
6	S203-D6	2CDS253001R0061	49.96
8	S203-D8	2CDS253001R0081	49.96
10	S203-D10	2CDS253001R0101	46.84
13	S203-D13	2CDS253001R0131	46.84
16	S203-D16	2CDS253001R0161	46.84
20	S203-D20	2CDS253001R0201	46.84
25	S203-D25	2CDS253001R0251	46.84
32	S203-D32	2CDS253001R0321	46.84
40	S203-D40	2CDS253001R0401	49.96
50	S203-D50	2CDS253001R0501	52.48
63	S203-D63	2CDS253001R0631	52.95



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System ProM compact S200-D series 6kA



Type D 6kA

Rated Current (A)	Four Pole	Product Hierarchy 2400004	
		Order Code	Price
1	S204-D1	2CDS254001R0011	101.59
2	S204-D2	2CDS254001R0021	101.59
3	S204-D3	2CDS254001R0031	101.59
4	S204-D4	2CDS254001R0041	101.59
6	S204-D6	2CDS254001R0061	101.59
8	S204-D8	2CDS254001R0081	101.59
10	S204-D10	2CDS254001R0101	95.02
13	S204-D13	2CDS254001R0131	95.02
16	S204-D16	2CDS254001R0161	95.02
20	S204-D20	2CDS254001R0201	95.02
25	S204-D25	2CDS254001R0251	95.02
32	S204-D32	2CDS254001R0321	95.02
40	S204-D40	2CDS254001R0401	101.12
50	S204-D50	2CDS254001R0501	112.32
63	S204-D63	2CDS254001R0631	114.43

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System ProM compact

S200-K series 6kA

2



2CSC400411F0201



2CSC400413F0201



2CSC400415F0201



Type K 6kA

Rated Current (A)	Single Pole	Product Hierarchy 2400004	
		Order Code	Price
1	S201-K1	2CDS251001R0217	13.46
2	S201-K2	2CDS251001R0277	13.46
3	S201-K3	2CDS251001R0317	13.46
4	S201-K4	2CDS251001R0337	13.46
6	S201-K6	2CDS251001R0377	13.46
8	S201-K8	2CDS251001R0407	13.46
10	S201-K10	2CDS251001R0427	12.28
13	S201-K13	2CDS251001R0447	18.27
16	S201-K16	2CDS251001R0467	12.28
20	S201-K20	2CDS251001R0487	13.46
25	S201-K25	2CDS251001R0517	13.93
32	S201-K32	2CDS251001R0537	13.93
40	S201-K40	2CDS251001R0557	15.43
50	S201-K50	2CDS251001R0577	16.33
63	S201-K63	2CDS251001R0607	17.50

Rated Current (A)	Double Pole	Order Code	Price
1	S202-K1	2CDS252001R0217	37.34
2	S202-K2	2CDS252001R0277	37.34
3	S202-K3	2CDS252001R0317	37.34
4	S202-K4	2CDS252001R0337	37.34
6	S202-K6	2CDS252001R0377	37.34
8	S202-K8	2CDS252001R0407	37.34
10	S202-K10	2CDS252001R0427	32.42
13	S202-K13	2CDS252001R0447	32.42
16	S202-K16	2CDS252001R0467	32.42
20	S202-K20	2CDS252001R0487	35.76
25	S202-K25	2CDS252001R0517	36.94
32	S202-K32	2CDS252001R0537	36.94
40	S202-K40	2CDS252001R0557	43.43
50	S202-K50	2CDS252001R0577	44.84
63	S202-K63	2CDS252001R0607	48.17

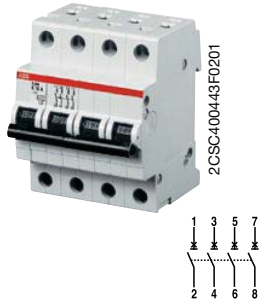
Rated Current (A)	Triple Pole	Order Code	Price
1	S203-K1	2CDS253001R0217	56.56
2	S203-K2	2CDS253001R0277	56.56
3	S203-K3	2CDS253001R0317	56.56
4	S203-K4	2CDS253001R0337	56.56
6	S203-K6	2CDS253001R0377	56.56
8	S203-K8	2CDS253001R0407	56.56
10	S203-K10	2CDS253001R0427	48.90
13	S203-K13	2CDS253001R0447	48.90
16	S203-K16	2CDS253001R0467	48.90
20	S203-K20	2CDS253001R0487	54.11
25	S203-K25	2CDS253001R0517	55.87
32	S203-K32	2CDS253001R0537	55.87
40	S203-K40	2CDS253001R0557	64.42
50	S203-K50	2CDS253001R0577	68.05
63	S203-K63	2CDS253001R0607	73.24



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System ProM compact S200-K series 6kA



Type K 6kA		Product Hierarchy 2400004	
Rated Current (A)	Four Pole	Order Code	Price
1	S204-K1	2CDS254001R0217	77.21
2	S204-K2	2CDS254001R0277	77.21
3	S204-K3	2CDS254001R0317	77.21
4	S204-K4	2CDS254001R0337	77.21
6	S204-K6	2CDS254001R0377	77.21
8	S204-K8	2CDS254001R0407	77.21
10	S204-K10	2CDS254001R0427	84.64
13	S204-K13	2CDS254001R0447	69.22
16	S204-K16	2CDS254001R0467	69.22
20	S204-K20	2CDS254001R0487	78.37
25	S204-K25	2CDS254001R0517	84.82
32	S204-K32	2CDS254001R0537	84.82
40	S204-K40	2CDS254001R0557	89.73
50	S204-K50	2CDS254001R0577	108.11
63	S204-K63	2CDS254001R0607	122.66

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System ProM compact

S200-Z series 6kA

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Type Z 6kA

Rated Current (A)	Single Pole	Product Hierarchy 2400004	
		Order Code	Price
1	S201-Z1	2CDS251001R0218	18.03
2	S201-Z2	2CDS251001R0278	18.03
3	S201-Z3	2CDS251001R0318	18.03
4	S201-Z4	2CDS251001R0338	18.03
6	S201-Z6	2CDS251001R0378	21.25
8	S201-Z8	2CDS251001R0408	21.91
10	S201-Z10	2CDS251001R0428	18.20
13	S201-Z13	2CDS251001R0448	93.88
16	S201-Z16	2CDS251001R0468	18.20
20	S201-Z20	2CDS251001R0488	21.01
25	S201-Z25	2CDS251001R0518	19.61
32	S201-Z32	2CDS251001R0538	22.76
40	S201-Z40	2CDS251001R0558	23.66
50	S201-Z50	2CDS251001R0578	25.71
63	S201-Z63	2CDS251001R0608	25.71

Rated Current (A)	Double Pole	Order Code	Price
1	S202-Z1	2CDS252001R0218	50.23
2	S202-Z2	2CDS252001R0278	48.74
3	S202-Z3	2CDS252001R0318	48.74
4	S202-Z4	2CDS252001R0338	50.23
6	S202-Z6	2CDS252001R0378	48.74
8	S202-Z8	2CDS252001R0408	50.23
10	S202-Z10	2CDS252001R0428	40.60
13	S202-Z13	2CDS252001R0448	POA
16	S202-Z16	2CDS252001R0468	40.60
20	S202-Z20	2CDS252001R0488	46.77
25	S202-Z25	2CDS252001R0518	48.74
32	S202-Z32	2CDS252001R0538	50.78
40	S202-Z40	2CDS252001R0558	52.84
50	S202-Z50	2CDS252001R0578	63.67
63	S202-Z63	2CDS252001R0608	71.13

Rated Current (A)	Triple Pole	Order Code	Price
1	S203-Z1	2CDS253001R0218	79.28
2	S203-Z2	2CDS253001R0278	76.22
3	S203-Z3	2CDS253001R0318	76.22
4	S203-Z4	2CDS253001R0338	76.22
6	S203-Z6	2CDS253001R0378	66.25
8	S203-Z8	2CDS253001R0408	76.22
10	S203-Z10	2CDS253001R0428	64.36
13	S202K13	2CDS253001R0448	POA
16	S203-Z16	2CDS253001R0468	59.65
20	S203-Z20	2CDS253001R0488	59.65
25	S203-Z25	2CDS253001R0518	73.96
32	S203-Z32	2CDS253001R0538	74.63
40	S203-Z40	2CDS253001R0558	77.59
50	S203-Z50	2CDS253001R0578	89.55
63	S203-Z63	2CDS253001R0608	93.88



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System ProM compact S200-Z series 6kA



Type Z 6kA

Rated Current (A)	Four Pole	Product Hierarchy 2400004	
		Order Code	Price
1	S204-Z1	2CDS254001R0218	109.49
2	S204-Z2	2CDS254001R0278	110.56
3	S204-Z3	2CDS254001R0318	109.49
4	S204-Z4	2CDS254001R0338	109.49
6	S204-Z6	2CDS254001R0378	109.49
8	S204-Z8	2CDS254001R0408	109.49
10	S204-Z10	2CDS254001R0428	91.07
13	S204-Z13	2CDS254001R0448	POA
16	S204-Z16	2CDS254001R0468	91.07
20	S204-Z20	2CDS254001R0468	91.07
25	S204-Z25	2CDS254001R0518	109.49
32	S204-Z32	2CDS254001R0538	114.00
40	S204-Z40	2CDS254001R0558	118.52
50	S204-Z50	2CDS254001R0578	136.61
63	S204-Z63	2CDS254001R0608	155.03

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System ProM compact

S200M-B series 10kA

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2CSC400411F0201



2CSC400413F0201



2CSC400415F0201



2CSC400443F0201



Type MB 10kA

Rated Current (A)	Single Pole	Product Hierarchy 2400004	
		Order Code	Price
6	S201M-B6	2CDS271001R0065	10.94
10	S201M-B10	2CDS271001R0105	10.04
16	S201M-B16	2CDS271001R0165	10.04
20	S201M-B20	2CDS271001R0205	10.04
25	S201M-B25	2CDS271001R0255	10.04
32	S201M-B32	2CDS271001R0325	10.04
40	S201M-B40	2CDS271001R0405	10.94
50	S201M-B50	2CDS271001R0505	11.51
63	S201M-B63	2CDS271001R0635	11.64

Rated Current (A)	Double Pole	Order Code	Price
6	S202M-B6	2CDS272001R0065	31.41
10	S202M-B10	2CDS272001R0105	28.85
16	S202M-B16	2CDS272001R0165	28.85
20	S202M-B20	2CDS272001R0205	28.85
25	S202M-B25	2CDS272001R0255	28.85
32	S202M-B32	2CDS272001R0325	28.85
40	S202M-B40	2CDS272001R0405	31.48
50	S202M-B50	2CDS272001R0505	33.00
63	S202M-B63	2CDS272001R0635	33.28

Rated Current (A)	Triple Pole	Order Code	Price
6	S203M-B6	2CDS273001R0065	46.64
10	S203M-B10	2CDS273001R0105	43.74
16	S203M-B16	2CDS273001R0165	43.74
20	S203M-B20	2CDS273001R0205	43.74
25	S203M-B25	2CDS273001R0255	43.74
32	S203M-B32	2CDS273001R0325	43.74
40	S203M-B40	2CDS273001R0405	46.64
50	S203M-B50	2CDS273001R0505	48.97
63	S203M-B63	2CDS273001R0635	49.45

Rated Current (A)	Four Pole	Order Code	Price
6	S204M-B6	2CDS274001R0065	76.63
10	S204M-B10	2CDS274001R0105	71.91
16	S204M-B16	2CDS274001R0165	71.91
20	S204M-B20	2CDS274001R0205	71.91
25	S204M-B25	2CDS274001R0255	71.91
32	S204M-B32	2CDS274001R0325	71.91
40	S204M-B40	2CDS274001R0405	76.62
50	S204M-B50	2CDS274001R0505	80.45
63	S204M-B63	2CDS274001R0635	89.88



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System ProM compact S200M-C series 10kA

Type MC 10kA

Rated Current (A)	Single Pole	Product Hierarchy 2400004	
		Order Code	Price
1	S201M-C1	2CDS271001R0014	11.64
2	S201M-C2	2CDS271001R0024	11.51
3	S201M-C3	2CDS271001R0034	11.51
4	S201M-C4	2CDS271001R0044	11.27
6	S201M-C6	2CDS271001R0064	10.94
8	S201M-C8	2CDS271001R0084	10.94
10	S201M-C10	2CDS271001R0104	10.04
13	S201M-C13	2CDS271001R0134	10.04
16	S201M-C16	2CDS271001R0164	10.04
20	S201M-C20	2CDS271001R0204	10.04
25	S201M-C25	2CDS271001R0254	10.04
32	S201M-C32	2CDS271001R0324	10.04
40	S201M-C40	2CDS271001R0404	10.94
50	S201M-C50	2CDS271001R0504	11.51
63	S201M-C63	2CDS271001R0634	11.64



2CSC400411FD201



2CSC400413FD201



2CSC400415FD201



Rated Current (A)	Double Pole	Order Code	Price
1	S202M-C1	2CDS272001R0014	33.28
2	S202M-C2	2CDS272001R0024	33.00
3	S202M-C3	2CDS272001R0034	33.00
4	S202M-C4	2CDS272001R0044	32.40
6	S202M-C6	2CDS272001R0064	31.41
8	S202M-C8	2CDS272001R0084	28.85
10	S202M-C10	2CDS272001R0104	28.85
13	S202M-C13	2CDS272001R0134	28.85
16	S202M-C16	2CDS272001R0164	28.85
20	S202M-C20	2CDS272001R0204	28.85
25	S202M-C25	2CDS272001R0254	28.85
32	S202M-C32	2CDS272001R0324	28.85
40	S202M-C40	2CDS272001R0404	31.48
50	S202M-C50	2CDS272001R0504	33.00
63	S202M-C63	2CDS272001R0634	33.28

Rated Current (A)	Triple Pole	Order Code	Price
1	S203M-C1	2CDS273001R0014	49.45
2	S203M-C2	2CDS273001R0024	48.97
3	S203M-C3	2CDS273001R0034	48.97
4	S203M-C4	2CDS273001R0044	48.08
6	S203M-C6	2CDS273001R0064	46.64
8	S203M-C8	2CDS273001R0084	46.64
10	S203M-C10	2CDS273001R0104	43.74
13	S203M-C13	2CDS273001R0134	43.74
16	S203M-C16	2CDS273001R0164	43.74
20	S203M-C20	2CDS273001R0204	43.74
25	S203M-C25	2CDS273001R0254	43.74
32	S203M-C32	2CDS273001R0324	43.74
40	S203M-C40	2CDS273001R0404	46.64
50	S203M-C50	2CDS273001R0504	48.97
63	S203M-C63	2CDS273001R0634	49.45

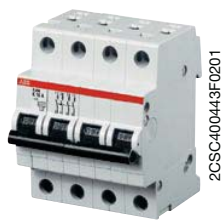


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2CSC400002D0208

System ProM compact S200M-C series 10kA

2



Type MC 10kA

Rated Current (A)	Four Pole	Product Hierarchy 2400004	
		Order Code	Price
1	S204M-C1	2CDS274004R0014	POA
2	S204M-C2	2CDS274004R0024	POA
3	S204M-C3	2CDS274004R0034	POA
4	S204M-C4	2CDS274004R0044	POA
6	S204M-C6	2CDS274004R0064	POA
8	S204M-C8	2CDS274004R0084	POA
10	S204M-C10	2CDS274004R0104	POA
13	S204M-C13	2CDS274004R0134	POA
16	S204M-C16	2CDS274004R0164	POA
20	S204M-C20	2CDS274004R0204	POA
25	S204M-C25	2CDS274004R0254	POA
32	S204M-C32	2CDS274004R0324	POA
40	S204M-C40	2CDS274004R0404	POA
50	S204M-C50	2CDS274004R0504	POA
63	S204M-C63	2CDS274004R0634	POA



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System ProM compact S200M-D series 10kA



2CSC400411F0201



2CSC400413F0201



2CSC400415F0201



Type MD 10kA

Rated Current (A)	Single Pole	Product Hierarchy 2400004	
		Order Code	Price
1	S201M-D1	2CDS271001R0011	14.52
2	S201M-D2	2CDS271001R0021	16.71
3	S201M-D3	2CDS271001R0031	16.71
4	S201M-D4	2CDS271001R0041	16.71
6	S201M-D6	2CDS271001R0061	12.63
8	S201M-D8	2CDS271001R0081	12.42
10	S201M-D10	2CDS271001R0101	12.63
13	S201M-D13	2CDS271001R0131	25.74
16	S201M-D16	2CDS271001R0161	12.63
20	S201M-D20	2CDS271001R0201	12.63
25	S201M-D25	2CDS271001R0251	12.63
32	S201M-D32	2CDS271001R0321	12.63
40	S201M-D40	2CDS271001R0401	17.00
50	S201M-D50	2CDS271001R0501	19.80
63	S201M-D63	2CDS271001R0631	16.55

Rated Current (A)	Double Pole	Order Code	Price
1	S202M-D1	2CDS272001R0011	25.34
2	S202M-D2	2CDS272001R0021	25.34
3	S202M-D3	2CDS272001R0031	29.16
4	S202M-D4	2CDS272001R0041	29.16
6	S202M-D6	2CDS272001R0061	28.85
8	S202M-D8	2CDS272001R0081	25.26
10	S202M-D10	2CDS272001R0101	21.95
13	S202M-D13	2CDS272001R0131	69.09
16	S202M-D16	2CDS272001R0161	28.85
20	S202M-D20	2CDS272001R0201	28.85
25	S202M-D25	2CDS272001R0251	25.26
32	S202M-D32	2CDS272001R0321	29.16
40	S202M-D40	2CDS272001R0401	29.16
50	S202M-D50	2CDS272001R0501	38.04
63	S202M-D63	2CDS272001R0631	33.07

Rated Current (A)	Triple Pole	Order Code	Price
1	S203M-D1	2CDS273001R0011	57.88
2	S203M-D2	2CDS273001R0021	57.88
3	S203M-D3	2CDS273001R0031	57.88
4	S203M-D4	2CDS273001R0041	57.88
6	S203M-D6	2CDS273001R0061	57.88
6	S203M-D8	2CDS273001R0081	47.00
10	S203M-D10	2CDS273001R0101	40.84
13	S203M-D13	2CDS273001R0131	103.59
16	S203M-D16	2CDS273001R0161	40.84
20	S203M-D20	2CDS273001R0201	POA
25	S203M-D25	2CDS273001R0251	40.84
32	S203M-D32	2CDS273001R0321	44.21
40	S203M-D40	2CDS273001R0401	52.93
50	S203M-D50	2CDS273001R0501	53.58
63	S203M-D63	2CDS273001R0631	55.72



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System ProM compact S200M-D series 10kA

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2CSC400443F0201



Type MD 10kA

Rated Current (A)	Four Pole	Product Hierarchy 2400004	
		Order Code	Price
1	S204M-D1	2CDS274001R0011	82.34
2	S204M-D2	2CDS274001R0021	82.34
3	S204M-D3	2CDS274001R0031	82.34
4	S204M-D4	2CDS274001R0041	82.34
6	S204M-D6	2CDS274001R0061	82.34
8	S204M-D8	2CDS274001R0081	70.69
10	S204M-D10	2CDS274001R0101	70.69
13	S204M-D13	2CDS274001R0131	125.80
16	S204M-D16	2CDS274001R0161	70.69
20	S204M-D20	2CDS274001R0201	70.69
25	S204M-D25	2CDS274001R0251	70.69
32	S204M-D32	2CDS274001R0321	77.51
40	S204M-D40	2CDS274001R0401	74.59
50	S204M-D50	2CDS274001R0501	90.13
63	S204M-D63	2CDS274001R0631	93.74



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System ProM compact S200M-K series 10kA

Type MK 10kA

Product Hierarchy 2400004

Rated Current (A)	Single Pole	Product Hierarchy 2400004	
		Order Code	Price
0.5	S201M-K0.5	2CDS271001R0157	POA
1	S201M-K1	2CDS271001R0217	17.54
2	S201M-K2	2CDS271001R0277	17.54
3	S201M-K3	2CDS271001R0317	17.54
4	S201M-K4	2CDS271001R0337	17.54
6	S201M-K6	2CDS271001R0377	17.54
8	S201M-K8	2CDS271001R0407	17.54
10	S201M-K10	2CDS271001R0427	14.63
13	S201M-K13	2CDS271001R0447	16.38
16	S201M-K16	2CDS271001R0467	14.63
20	S201M-K20	2CDS271001R0487	16.79
25	S201M-K25	2CDS271001R0517	17.54
32	S201M-K32	2CDS271001R0537	18.31



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2CSC400413F0201



2CSC400415F0201



Rated Current (A)	Double Pole	Order Code	Price
0.5	S202M-K0.5	2CDS272001R0157	40.23
1	S202M-K1	2CDS272001R0217	40.23
2	S202M-K2	2CDS272001R0277	40.23
3	S202M-K3	2CDS272001R0317	40.23
4	S202M-K4	2CDS272001R0337	40.23
6	S202M-K6	2CDS272001R0377	40.23
8	S202M-K8	2CDS272001R0407	40.23
10	S202M-K10	2CDS272001R0427	33.49
13	S202M-K13	2CDS272001R0447	37.49
16	S202M-K16	2CDS272001R0467	33.49
20	S202M-K20	2CDS272001R0487	38.48
25	S202M-K25	2CDS272001R0517	38.28
32	S202M-K32	2CDS272001R0537	41.86
40	S202M-K40	2CDS272001R0557	43.61
50	S202M-K50	2CDS272001R0577	50.27
63	S202M-K63	2CDS272001R0607	57.04

Rated Current (A)	Triple Pole	Order Code	Price
1	S203M-K1	2CDS273001R0217	61.05
2	S203M-K2	2CDS273001R0277	61.05
4	S203M-K4	2CDS273001R0337	61.05
6	S203M-K6	2CDS273001R0377	61.05
8	S203M-K8	2CDS273001R0407	61.05
10	S203M-K10	2CDS273001R0427	50.93
13	S203M-K13	2CDS273001R0447	57.15
16	S203M-K16	2CDS273001R0467	50.93
20	S203M-K20	2CDS273001R0487	58.57
32	S203M-K32	2CDS273001R0537	63.67
40	S203M-K40	2CDS273001R0557	66.18
50	S203M-K50	2CDS273001R0577	76.44
63	S203M-K63	2CDS273001R0607	86.56

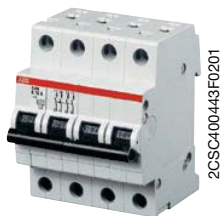


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System ProM compact S200M-K series 10kA

2



Type MK 10kA

Rated Current (A)	Four Pole	Product Hierarchy 2400004	
		Order Code	Price
1	S204M-K1	2CDS274001R0217	87.77
2	S204M-K2	2CDS274001R0277	87.77
3	S204M-K3	2CDS274001R0317	87.77
4	S204M-K4	2CDS274001R0337	87.77
6	S204M-K6	2CDS274001R0377	87.77
8	S204M-K8	2CDS274001R0407	87.77
10	S204M-K10	2CDS274001R0427	71.97
13	S204M-K13	2CDS274001R0447	81.83
16	S204M-K16	2CDS274001R0467	71.97
20	S204M-K20	2CDS274001R0487	84.20
25	S204M-K25	2CDS274001R0517	87.77
32	S204M-K32	2CDS274001R0537	91.48
40	S204M-K40	2CDS274001R0557	95.08
50	S204M-K50	2CDS274001R0577	109.56
63	S204M-K63	2CDS274001R0607	124.31



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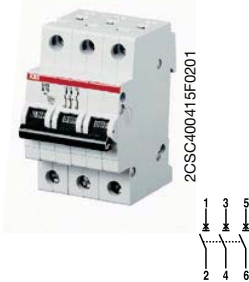
System ProM compact

S200M-Z series 10kA

Type MZ 10kA

Product Hierarchy 2400004

Rated Current (A)	Single Pole	Product Hierarchy 2400004	
		Order Code	Price
0.5	S201M-Z0.5	2CDS271001R0158	18.86
1	S201M-Z1	2CDS271001R0218	18.86
2	S201M-Z2	2CDS271001R0278	18.86
3	S201M-Z3	2CDS271001R0318	18.86
4	S201M-Z4	2CDS271001R0338	18.86
6	S201M-Z6	2CDS271001R0378	18.86
8	S201M-Z8	2CDS271001R0408	18.86
10	S201M-Z10	2CDS271001R0428	15.69
13	S201M-Z13	2CDS271001R0448	POA
16	S201M-Z16	2CDS271001R0468	15.69
20	S201M-Z20	2CDS271001R0488	18.10
25	S201M-Z25	2CDS271001R0518	18.86
32	S201M-Z32	2CDS271001R0538	19.73
40	S201M-Z40	2CDS271001R0558	20.50
50	S201M-Z50	2CDS271001R0578	23.56
63	S201M-Z63	2CDS271001R0608	26.72



Rated Current (A)	Double Pole	Order Code	Price
0.5	S202M-Z0.5	2CDS272001R0158	43.39
1	S202M-Z1	2CDS272001R0218	43.39
2	S202M-Z2	2CDS272001R0278	43.39
3	S202M-Z3	2CDS272001R0318	43.39
4	S202M-Z4	2CDS272001R0338	43.39
6	S202M-Z6	2CDS272001R0378	43.39
8	S202M-Z8	2CDS272001R0408	43.39
10	S202M-Z10	2CDS272001R0428	36.11
13	S202M-Z13	2CDS272001R0448	POA
16	S202M-Z16	2CDS272001R0468	36.11
20	S202M-Z20	2CDS272001R0488	41.54
25	S202M-Z25	2CDS272001R0518	43.39
32	S202M-Z32	2CDS272001R0538	45.14
40	S202M-Z40	2CDS272001R0558	47.00
50	S202M-Z50	2CDS272001R0578	54.20
63	S202M-Z63	2CDS272001R0608	61.37

Rated Current (A)	Triple Pole	Order Code	Price
0.5	S203M-Z0.5	2CDS273001R0158	65.74
1	S203M-Z1	2CDS273001R0218	65.74
2	S203M-Z2	2CDS273001R0278	65.74
3	S203M-Z3	2CDS273001R0318	65.74
4	S203M-Z4	2CDS273001R0338	65.74
6	S203M-Z6	2CDS273001R0378	65.74
8	S203M-Z8	2CDS273001R0408	65.74
10	S203M-Z10	2CDS273001R0428	54.86
13	S203M-Z13	2CDS273001R0448	POA
16	S203M-Z16	2CDS273001R0468	54.86
20	S203M-Z20	2CDS273001R0488	63.01
25	S203M-Z25	2CDS273001R0518	65.74
32	S203M-Z32	2CDS273001R0538	68.47
40	S203M-Z40	2CDS273001R0558	71.20
50	S203M-Z50	2CDS273001R0578	82.23
63	S203M-Z63	2CDS273001R0608	93.23



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System ProM compact S200M-Z series 10kA

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Type MZ 10kA

Rated Current (A)	Four Pole	Product Hierarchy 2400004	
		Order Code	Price
0.5	S204M-Z0.5	2CDS274001R0158	94.54
1	S204M-Z1	2CDS274001R0218	94.54
2	S204M-Z2	2CDS274001R0278	94.54
3	S204M-Z3	2CDS274001R0318	94.54
4	S204M-Z4	2CDS274001R0338	94.54
6	S204M-Z6	2CDS274001R0378	94.54
8	S204M-Z8	2CDS274001R0408	94.54
10	S204M-Z10	2CDS274001R0428	78.59
13	S204M-Z13	2CDS274001R0448	POA
16	S204M-Z16	2CDS274001R0468	78.59
20	S204M-Z20	2CDS274001R0488	81.83
25	S204M-Z25	2CDS274001R0518	94.54
32	S204M-Z32	2CDS274001R0538	98.35
40	S204M-Z40	2CDS274001R0558	102.28
50	S204M-Z50	2CDS274001R0578	117.86
63	S204M-Z63	2CDS274001R0608	133.78



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System ProM compact S200P-K & C series 25kA



Type PK

Rated Current (A)	Single Pole	Product Hierarchy 2400002	
		Order Code	Price
3	S201P-K3 25kA	2CDS281001R0317	20.80
6	S201P-K6 25kA	2CDS281001R0377	20.80
10	S201P-K10 25kA	2CDS281001R0427	18.49
20	S201P-K20 25kA	2CDS281001R0487	21.13
32	S201P-K32 15kA	2CDS281001R0537	25.45
40	S201P-K40 15kA	2CDS281001R0557	29.46

Rated Current (A)	Double Pole	Order Code	Price
1	S202P-K1 25kA	2CDS282001R0217	45.45
2	S202P-K2 25kA	2CDS282001R0277	45.45
3	S202P-K3 25kA	2CDS282001R0317	45.45
4	S202P-K4 25kA	2CDS282001R0337	45.45
6	S202P-K6 25kA	2CDS282001R0377	45.45
8	S202P-K8 25kA	2CDS282001R0407	45.45
16	S202P-K16 25kA	2CDS282001R0467	41.23
20	S202P-K20 25kA	2CDS282001R0487	45.83
25	S202P-K25 25kA	2CDS282001R0517	48.35
40	S202P-K40 15kA	2CDS282001R0557	62.86
50	S202P-K50 15kA	2CDS282001R0577	71.36

Rated Current (A)	Triple Pole	Order Code	Price
6	S203P-K6 25kA	2CDS283001R0377	68.45
16	S203P-K16 25kA	2CDS283001R0467	62.33
32	S203P-K32 15kA	2CDS283001R0537	82.33

Type PC

Rated Current (A)	Single Pole	Product Hierarchy 2400002	
		Order Code	Price
16	S201P-C16 25kA	2CDS281001R0164	14.57
20	S201P-C20 25kA	2CDS281001R0204	14.57
32	S201P-C32 15kA	2CDS281001R0324	14.57

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System ProM compact

SN201-B, C, D series 6kA - single pole & switched neutral

2



Type B 6kA		Product Hierarchy 2400002	
		Order Code	Price
Rated Current (A)	Single Pole + Switched Neutral		
6	SN201-B6	2CSS255101R0065	10.93
10	SN201-B10	2CSS255101R0105	11.24
16	SN201-B16	2CSS255101R0165	POA
20	SN201-B20	2CSS255101R0205	POA
25	SN201-B25	2CSS255101R0255	POA
32	SN201-B32	2CSS255101R0325	13.12
40	SN201-B40	2CSS255101R0405	18.22

Type C 6kA		Product Hierarchy 2400002	
		Order Code	Price
Rated Current (A)	Single Pole + Switched Neutral		
2	SN201-C2	2CSS255101R0024	18.22
4	SN201-C4	2CSS255101R0044	18.22
6	SN201-C6	2CSS255101R0064	18.22
10	SN201-C10	2CSS255101R0104	18.22
13	SN201-C13	2CSS255101R0134	18.22
16	SN201-C16	2CSS255101R0164	18.22
20	SN201-C20	2CSS255101R0204	18.22
25	SN201-C25	2CSS255101R0254	18.22
32	SN201-C32	2CSS255101R0324	18.22
40	SN201-C40	2CSS255101R0404	18.22

Type D 6kA		Product Hierarchy 2400002	
		Order Code	Price
Rated Current (A)	Single Pole + Switched Neutral		
6	SN201-D6	2CSS255101R0061	POA
10	SN201-D10	2CSS255101R0101	POA
16	SN201-D16	2CSS255101R0161	16.23
20	SN201-D20	2CSS255101R0201	POA
25	SN201-D25	2CSS255101R0251	POA
32	SN201-D32	2CSS255101R0321	16.23
40	SN201-D40	2CSS255101R0401	POA



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System ProM compact

SN201M-B & C series 10kA - single pole & switched neutral



Type B 10kA

Rated Current (A)	Single Pole + Switched Neutral	Product Hierarchy 2400002	
		Order Code	Price
6	SN201M-B6	2CSS275101R0065	POA
10	SN201M-B10	2CSS275101R0105	POA
16	SN201M-B16	2CSS275101R0165	POA
20	SN201M-B20	2CSS275101R0205	POA
25	SN201M-B25	2CSS275101R0255	POA
32	SN201M-B32	2CSS275101R0325	POA
40	SN201M-B40	2CSS275101R0405	POA

Type C 10kA

Rated Current (A)	Single Pole + Switched Neutral	Product Hierarchy 2400002	
		Order Code	Price
2	SN201M-C2	2CSS275101R0024	14.96
4	SN201M-C4	2CSS275101R0044	14.96
6	SN201M-C6	2CSS275101R0064	14.96
10	SN201M-C10	2CSS275101R0104	14.96
16	SN201M-C16	2CSS275101R0134	POA
20	SN201M-C20	2CSS275101R0204	POA
25	SN201M-C25	2CSS275101R0254	14.96
32	SN201M-C32	2CSS275101R0324	POA
40	SN201M-C40	2CSS275101R0404	POA

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System ProM compact S280 B & C series 6kA

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2CSC400411F0201



2CSC400413F0201



2CSC400415F0201



2CSC400443F0201



Type B 6kA

		Product Hierarchy 2400004	
Rated Current (A)	Single Pole	Order Code	Price
80	S281-B80	GHS2810001R0805	29.07
100	S281-B100	GHS2810001R0825	29.07
Rated Current (A)	Double Pole	Order Code	Price
80	S282-B80	GHS2820001R0805	58.17
100	S282-B100	GHS2820001R0825	58.17
Rated Current (A)	Triple Pole	Order Code	Price
80	S283-B80	GHS2830001R0805	87.26
100	S283-B100	GHS2830001R0825	87.26
Rated Current (A)	Four Pole	Order Code	Price
80	S284-B80	GHS2840001R0805	116.30
100	S284-B100	GHS2840001R0825	114.81

Type C 6kA

		Product Hierarchy 2400004	
Rated Current (A)	Single Pole	Order Code	Price
80	S281-C80	GHS2810001R0804	29.07
100	S281-C100	GHS2810001R0824	29.07
Rated Current (A)	Double Pole	Order Code	Price
80	S282-C80	GHS2820001R0804	58.17
100	S282-C100	GHS2820001R0824	58.17
Rated Current (A)	Triple Pole	Order Code	Price
80	S283-C80	GHS2830001R0804	87.26
100	S283-C100	GHS2830001R0824	87.26
Rated Current (A)	Four Pole	Order Code	Price
80	S284-C80	GHS2840001R0804	105.19
100	S284-C100	GHS2840001R0824	105.19



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System ProM compact

S800S series - type B 50kA



Type SB 50kA

Product Hierarchy 2400003

Rated Current (A)	Single Pole	Product Hierarchy 2400003	
		Order Code	Price
6	S801S-B6	2CCS861001R0065	38.96
8	S801S-B8	2CCS861001R0085	POA
10	S801S-B10	2CCS861001R0105	38.96
16	S801S-B16	2CCS861001R0165	38.96
20	S801S-B20	2CCS861001R0205	38.96
25	S801S-B25	2CCS861001R0255	38.96
32	S801S-B32	2CCS861001R0325	38.96
40	S801S-B40	2CCS861001R0405	40.75
50	S801S-B50	2CCS861001R0505	42.86
63	S801S-B63	2CCS861001R0635	46.75
80	S801S-B80	2CCS861001R0805	54.18
100	S801S-B100	2CCS861001R0825	54.18
125	S801S-B125	2CCS861001R0845	56.68

Rated Current (A)	Dou-Ble Pole	Order Code	Price
6	S802S-B6	2CCS862001R0065	81.47
8	S802S-B8	2CCS862001R0085	POA
10	S802S-B10	2CCS862001R0105	77.93
16	S802S-B16	2CCS862001R0165	77.93
20	S802S-B20	2CCS862001R0205	77.93
25	S802S-B25	2CCS862001R0255	77.93
32	S802S-B32	2CCS862001R0325	77.93
40	S802S-B40	2CCS862001R0405	81.47
50	S802S-B50	2CCS862001R0505	85.00
63	S802S-B63	2CCS862001R0635	91.75
80	S802S-B80	2CCS862001R0805	108.39
100	S802S-B100	2CCS862001R0825	108.39
125	S802S-B125	2CCS862001R0845	116.89

Rated Current (A)	Triple Pole	Order Code	Price
6	S803S-B6	2CCS863001R0065	POA
8	S803S-B8	2CCS863001R0085	POA
10	S803S-B10	2CCS863001R0105	113.34
16	S803S-B16	2CCS863001R0165	113.34
20	S803S-B20	2CCS863001R0205	113.34
25	S803S-B25	2CCS863001R0255	113.34
32	S803S-B32	2CCS863001R0325	113.34
40	S803S-B40	2CCS863001R0405	120.43
50	S803S-B50	2CCS863001R0505	127.50
63	S803S-B63	2CCS863001R0635	138.11
80	S803S-B80	2CCS863001R0805	159.39
100	S803S-B100	2CCS863001R0825	159.39
125	S803S-B125	2CCS863001R0845	170.01

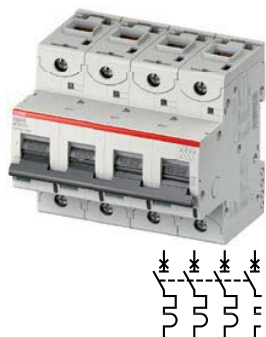


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System ProM compact

S800S series - type B 50kA

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Type B 50kA

Rated Current (A)	Four Pole	Product Hierarchy 2400003	
		Order Code	Price
6	S804S-B6	2CCS864001R0065	POA
8	S804S-B8	2CCS864001R0085	POA
10	S804S-B10	2CCS864001R0105	151.94
16	S804S-B16	2CCS864001R0165	151.94
20	S804S-B20	2CCS864001R0205	151.94
25	S804S-B25	2CCS864001R0255	151.94
32	S804S-B32	2CCS864001R0325	151.94
40	S804S-B40	2CCS864001R0405	161.18
50	S804S-B50	2CCS864001R0505	168.25
63	S804S-B63	2CCS864001R0635	179.59
80	S804S-B80	2CCS864001R0805	212.50
100	S804S-B100	2CCS864001R0825	212.50
125	S804S-B125	2CCS864001R0845	228.47



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System ProM compact

S800S series - type C 50kA



Type C 50kA

Product Hierarchy 2400003

Rated Current (A)	Single Pole	Product Hierarchy 2400003	
		Order Code	Price
6	S801S-C6	2CCS861001R0064	38.96
8	S801S-C8	2CCS861001R0084	POA
10	S801S-C10	2CCS861001R0104	38.96
16	S801S-C16	2CCS861001R0164	38.96
20	S801S-C20	2CCS861001R0204	38.96
25	S801S-C25	2CCS861001R0254	38.96
32	S801S-C32	2CCS861001R0324	38.96
40	S801S-C40	2CCS861001R0404	40.75
50	S801S-C50	2CCS861001R0504	42.86
63	S801S-C63	2CCS861001R0634	46.75
80	S801S-C80	2CCS861001R0804	54.18
100	S801S-C100	2CCS861001R0824	54.18
125	S801S-C125	2CCS861001R0844	56.68

Rated Current (A)	Double Pole	Order Code	Price
6	S802S-C6	2CCS862001R0064	POA
8	S802S-C8	2CCS862001R0084	POA
10	S802S-C10	2CCS862001R0104	77.93
16	S802S-C16	2CCS862001R0164	77.93
20	S802S-C20	2CCS862001R0204	77.93
25	S802S-C25	2CCS862001R0254	77.93
32	S802S-C32	2CCS862001R0324	77.93
40	S802S-C40	2CCS862001R0404	81.47
50	S802S-C50	2CCS862001R0504	85.00
63	S802S-C63	2CCS862001R0634	91.75
80	S802S-C80	2CCS862001R0804	108.39
100	S802S-C100	2CCS862001R0824	108.39
125	S802S-C125	2CCS862001R0844	116.89

Rated Current (A)	Triple Pole	Order Code	Price
6	S803S-C6	2CCS863001R0064	POA
8	S803S-C8	2CCS863001R0084	POA
10	S803S-C10	2CCS863001R0104	113.34
16	S803S-C16	2CCS863001R0164	113.34
20	S803S-C20	2CCS863001R0204	113.34
25	S803S-C25	2CCS863001R0254	113.34
32	S803S-C32	2CCS863001R0324	113.34
40	S803S-C40	2CCS863001R0404	120.43
50	S803S-C50	2CCS863001R0504	127.50
63	S803S-C63	2CCS863001R0634	138.11
80	S803S-C80	2CCS863001R0804	159.39
100	S803S-C100	2CCS863001R0824	159.39
125	S803S-C125	2CCS863001R0844	170.01

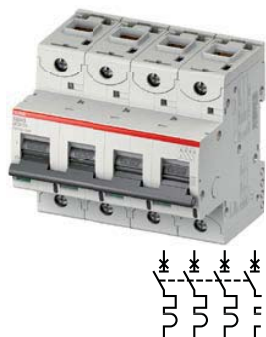


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System ProM compact

S800S series - type C 50kA

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Type C 50kA

Rated Current (A)	Four Pole	Product Hierarchy 2400003	
		Order Code	Price
6	S804S-C6	2CCS864001R0064	POA
8	S804S-C8	2CCS864001R0084	POA
10	S804S-C10	2CCS864001R0104	151.94
16	S804S-C16	2CCS864001R0164	151.94
20	S804S-C20	2CCS864001R0204	151.94
25	S804S-C25	2CCS864001R0254	151.94
32	S804S-C32	2CCS864001R0324	151.94
40	S804S-C40	2CCS864001R0404	161.18
50	S804S-C50	2CCS864001R0504	168.25
63	S804S-C63	2CCS864001R0634	179.59
80	S804S-C80	2CCS864001R0804	212.50
100	S804S-C100	2CCS864001R0824	212.50
125	S804S-C125	2CCS864001R0844	228.47



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System ProM compact

S800S series - type K 50kA



Type K 50kA

Product Hierarchy 2400003

Rated Current (A)	Single Pole	Product Hierarchy 2400003	
		Order Code	Price
6	S801S-K6	2CCS861001R0067	POA
8	S801S-K8	2CCS861001R0407	POA
10	S801S-K10	2CCS861001R0427	43.57
16	S801S-K16	2CCS861001R0467	43.57
20	S801S-K20	2CCS861001R0487	43.57
25	S801S-K25	2CCS861001R0517	43.57
32	S801S-K32	2CCS861001R0537	43.57
40	S801S-K40	2CCS861001R0557	45.35
50	S801S-K50	2CCS861001R0577	47.81
63	S801S-K63	2CCS861001R0597	52.07
80	S801S-K80	2CCS861001R0627	60.22
100	S801S-K100	2CCS861001R0637	60.22
125	S801S-K125	2CCS861001R0647	63.04

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Rated Current (A)	Double Pole	Order Code	Price
6	S802S-K6	2CCS862001R0067	POA
8	S802S-K8	2CCS862001R0407	POA
10	S802S-K10	2CCS862001R0427	86.78
16	S802S-K16	2CCS862001R0467	86.78
20	S802S-K20	2CCS862001R0487	86.78
25	S802S-K25	2CCS862001R0517	86.78
32	S802S-K32	2CCS862001R0537	86.78
40	S802S-K40	2CCS862001R0557	90.68
50	S802S-K50	2CCS862001R0577	94.58
63	S802S-K63	2CCS862001R0597	102.00
80	S802S-K80	2CCS862001R0627	120.43
100	S802S-K100	2CCS862001R0637	120.43
125	S802S-K125	2CCS862001R0647	130.00

Rated Current (A)	Triple Pole	Order Code	Price
6	S803S-K6	2CCS863001R0067	POA
8	S803S-K8	2CCS863001R0407	POA
10	S803S-K10	2CCS863001R0427	126.10
16	S803S-K16	2CCS863001R0467	126.10
20	S803S-K20	2CCS863001R0487	126.10
25	S803S-K25	2CCS863001R0517	126.10
32	S803S-K32	2CCS863001R0537	126.10
40	S803S-K40	2CCS863001R0557	133.89
50	S803S-K50	2CCS863001R0577	141.67
63	S803S-K63	2CCS863001R0597	153.71
80	S803S-K80	2CCS863001R0627	177.08
100	S803S-K100	2CCS863001R0637	177.08
125	S803S-K125	2CCS863001R0647	189.12

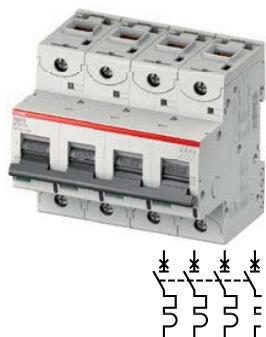


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S800S series - type K 50kA

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Type C 50kA

Rated Current (A)	Four Pole	Product Hierarchy 2400003	
		Order Code	Price
6	S804S-K6	2CCS864001R0067	POA
8	S804S-K8	2CCS864001R0407	POA
10	S804S-K10	2CCS864001R0427	168.96
16	S804S-K16	2CCS864001R0467	168.96
20	S804S-K20	2CCS864001R0487	168.96
25	S804S-K25	2CCS864001R0517	168.96
32	S804S-K32	2CCS864001R0537	168.96
40	S804S-K40	2CCS864001R0557	179.22
50	S804S-K50	2CCS864001R0577	187.01
63	S804S-K63	2CCS864001R0597	199.74
80	S804S-K80	2CCS864001R0627	236.26
100	S804S-K100	2CCS864001R0637	236.26
125	S804S-K125	2CCS864001R0647	253.96



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System ProM compact

S800N series - type B 36kA



Type B 36kA

Product Hierarchy 2400003

Rated Current (A)	Single Pole	Product Hierarchy 2400003	
		Order Code	Price
10	S801N-B10	2CCS891001R0105	35.06
13	S801N-B13	2CCS891001R0135	35.06
16	S801N-B16	2CCS891001R0165	35.06
20	S801N-B20	2CCS891001R0205	35.06
25	S801N-B25	2CCS891001R0255	35.06
32	S801N-B32	2CCS891001R0325	35.06
40	S801N-B40	2CCS891001R0405	36.83
50	S801N-B50	2CCS891001R0505	38.62
63	S801N-B63	2CCS891001R0635	42.14
80	S801N-B80	2CCS891001R0805	48.87
100	S801N-B100	2CCS891001R0825	48.87
125	S801N-B125	2CCS891001R0845	51.00

Rated Current (A)	Double Pole	Order Code	Price
10	S802N-B10	2CCS892001R0105	70.14
13	S802N-B13	2CCS892001R0135	70.14
16	S802N-B16	2CCS892001R0165	70.14
20	S802N-B20	2CCS892001R0205	70.14
25	S802N-B25	2CCS892001R0255	70.14
32	S802N-B32	2CCS892001R0325	70.14
40	S802N-B40	2CCS892001R0405	73.31
50	S802N-B50	2CCS892001R0505	76.51
63	S802N-B63	2CCS892001R0635	82.53
80	S802N-B80	2CCS892001R0805	97.76
100	S802N-B100	2CCS892001R0825	97.76
125	S802N-B125	2CCS892001R0845	105.20

Rated Current (A)	Triple Pole	Order Code	Price
10	S803N-B10	2CCS893001R0105	102.00
13	S803N-B13	2CCS893001R0135	102.00
16	S803N-B16	2CCS893001R0165	102.00
20	S803N-B20	2CCS893001R0205	102.00
25	S803N-B25	2CCS893001R0255	102.00
32	S803N-B32	2CCS893001R0325	102.00
40	S803N-B40	2CCS893001R0405	108.39
50	S803N-B50	2CCS893001R0505	114.75
63	S803N-B63	2CCS893001R0635	124.31
80	S803N-B80	2CCS893001R0805	143.45
100	S803N-B100	2CCS893001R0825	143.45
125	S803N-B125	2CCS893001R0845	152.99

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System ProM compact

S800N series - type B 36kA



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Type B 36kA

Rated Current (A)	Four Pole	Product Hierarchy 2400003	
		Order Code	Price
10	S804N-B10	2CCS894001R0105	137.06
13	S804N-B13	2CCS894001R0135	137.06
16	S804N-B16	2CCS894001R0165	137.06
20	S804N-B20	2CCS894001R0205	137.06
25	S804N-B25	2CCS894001R0255	137.06
32	S804N-B32	2CCS894001R0325	137.06
40	S804N-B40	2CCS894001R0405	145.22
50	S804N-B50	2CCS894001R0505	151.59
63	S804N-B63	2CCS894001R0635	161.86
80	S804N-B80	2CCS894001R0805	191.26
100	S804N-B100	2CCS894001R0825	191.26
125	S804N-B125	2CCS894001R0845	205.80



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System ProM compact

S800N series - type C 36kA



Type C 36kA

Product Hierarchy 2400003

Rated Current (A)	Single Pole	Product Hierarchy 2400003	
		Order Code	Price
10	S801N-C10	2CCS891001R0104	35.06
13	S801N-C13	2CCS891001R0134	35.06
16	S801N-C16	2CCS891001R0164	35.06
20	S801N-C20	2CCS891001R0204	35.06
25	S801N-C25	2CCS891001R0254	35.06
32	S801N-C32	2CCS891001R0324	35.06
40	S801N-C40	2CCS891001R0404	36.83
50	S801N-C50	2CCS891001R0504	38.62
63	S801N-C63	2CCS891001R0634	42.14
80	S801N-C80	2CCS891001R0804	48.87
100	S801N-C100	2CCS891001R0824	48.87
125	S801N-C125	2CCS891001R0844	51.00

Rated Current (A)	Double Pole	Order Code	Price
10	S802N-C10	2CCS892001R0104	70.14
13	S802N-C13	2CCS892001R0134	70.14
16	S802N-C16	2CCS892001R0164	70.14
20	S802N-C20	2CCS892001R0204	70.14
25	S802N-C25	2CCS892001R0254	70.14
32	S802N-C32	2CCS892001R0324	70.14
40	S802N-C40	2CCS892001R0404	73.31
50	S802N-C50	2CCS892001R0504	76.51
63	S802N-C63	2CCS892001R0634	82.53
80	S802N-C80	2CCS892001R0804	97.76
100	S802N-C100	2CCS892001R0824	97.76
125	S802N-C125	2CCS892001R0844	105.20

Rated Current (A)	Triple Pole	Order Code	Price
10	S803N-C10	2CCS893001R0104	102.00
13	S803N-C13	2CCS893001R0134	102.00
16	S803N-C16	2CCS893001R0164	102.00
20	S803N-C20	2CCS893001R0204	102.00
25	S803N-C25	2CCS893001R0254	102.00
32	S803N-C32	2CCS893001R0324	102.00
40	S803N-C40	2CCS893001R0404	108.39
50	S803N-C50	2CCS893001R0504	114.75
63	S803N-C63	2CCS893001R0634	124.31
80	S803N-C80	2CCS893001R0804	143.45
100	S803N-C100	2CCS893001R0824	143.45
125	S803N-C125	2CCS893001R0844	152.99

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System ProM compact

S800N series - type C 36kA



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Type C 36kA

Rated Current (A)	Four Pole	Product Hierarchy 2400003	
		Order Code	Price
10	S804N-C10	2CCS894001R0104	137.06
13	S804N-C13	2CCS894001R0134	137.06
16	S804N-C16	2CCS894001R0164	137.06
20	S804N-C20	2CCS894001R0204	137.06
25	S804N-C25	2CCS894001R0254	137.06
32	S804N-C32	2CCS894001R0324	137.06
40	S804N-C40	2CCS894001R0404	145.22
50	S804N-C50	2CCS894001R0504	151.59
63	S804N-C63	2CCS894001R0634	161.86
80	S804N-C80	2CCS894001R0804	191.26
100	S804N-C100	2CCS894001R0824	191.26
125	S804N-C125	2CCS894001R0844	205.80



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System ProM compact

S800N series - type D 36kA



Type D 36kA

Product Hierarchy 2400003

Rated Current (A)	Single Pole	Product Hierarchy 2400003	
		Order Code	Price
10	S801N-D10	2CCS891001R0101	37.55
13	S801N-D13	2CCS891001R0131	37.55
16	S801N-D16	2CCS891001R0161	37.55
20	S801N-D20	2CCS891001R0201	37.55
25	S801N-D25	2CCS891001R0251	37.55
32	S801N-D32	2CCS891001R0321	37.55
40	S801N-D40	2CCS891001R0401	39.31
50	S801N-D50	2CCS891001R0501	41.09
63	S801N-D63	2CCS891001R0631	44.99
80	S801N-D80	2CCS891001R0801	52.07
100	S801N-D100	2CCS891001R0821	52.07
125	S801N-D125	2CCS891001R0841	54.18

Rated Current (A)	Double Pole	Order Code	Price
10	S802N-D10	2CCS892001R0101	74.73
13	S802N-D13	2CCS892001R0131	74.73
16	S802N-D16	2CCS892001R0161	74.73
20	S802N-D20	2CCS892001R0201	74.73
25	S802N-D25	2CCS892001R0251	74.73
32	S802N-D32	2CCS892001R0321	74.73
40	S802N-D40	2CCS892001R0401	78.28
50	S802N-D50	2CCS892001R0501	81.82
63	S802N-D63	2CCS892001R0631	88.19
80	S802N-D80	2CCS892001R0801	104.14
100	S802N-D100	2CCS892001R0821	104.14
125	S802N-D125	2CCS892001R0841	112.28

Rated Current (A)	Triple Pole	Order Code	Price
10	S803N-D10	2CCS893001R0101	108.74
13	S803N-D13	2CCS893001R0131	108.74
16	S803N-D16	2CCS893001R0161	108.74
20	S803N-D20	2CCS893001R0201	108.74
25	S803N-D25	2CCS893001R0251	108.74
32	S803N-D32	2CCS893001R0321	108.74
40	S803N-D40	2CCS893001R0401	115.48
50	S803N-D50	2CCS893001R0501	122.21
63	S803N-D63	2CCS893001R0631	132.45
80	S803N-D80	2CCS893001R0801	152.99
100	S803N-D100	2CCS893001R0821	152.99
125	S803N-D125	2CCS893001R0841	162.91

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System ProM compact

S800N series - type D 36kA



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Type D 36kA

Rated Current (A)	Four Pole	Product Hierarchy 2400003	
		Order Code	Price
10	S804N-D10	2CCS894001R0101	145.92
13	S804N-D13	2CCS894001R0131	145.92
16	S804N-D16	2CCS894001R0161	145.92
20	S804N-D20	2CCS894001R0201	145.92
25	S804N-D25	2CCS894001R0251	145.92
32	S804N-D32	2CCS894001R0321	145.92
40	S804N-D40	2CCS894001R0401	154.43
50	S804N-D50	2CCS894001R0501	161.51
63	S804N-D63	2CCS894001R0631	172.14
80	S804N-D80	2CCS894001R0801	204.02
100	S804N-D100	2CCS894001R0821	204.02
125	S804N-D125	2CCS894001R0841	219.24



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System ProM compact

S800C series - type B 25kA



Type B 25kA

Product Hierarchy 2400003

Rated Current (A)	Single Pole	Product Hierarchy 2400003	
		Order Code	Price
10	S801C-B10	2CCS881001R0105	28.53
13	S801C-B13	2CCS881001R0135	POA
16	S801C-B16	2CCS881001R0165	28.53
20	S801C-B20	2CCS881001R0205	28.53
25	S801C-B25	2CCS881001R0255	28.53
32	S801C-B32	2CCS881001R0325	28.53
40	S801C-B40	2CCS881001R0405	31.83
50	S801C-B50	2CCS881001R0505	31.83
63	S801C-B63	2CCS883001R0635	93.18
80	S801C-B80	2CCS883001R0805	108.48
100	S801C-B100	2CCS883001R0825	108.48
125	S801C-B125	2CCS883001R0845	112.59

Rated Current (A)	Double Pole	Order Code	Price
10	S802C-B10	2CCS882001R0105	56.98
13	S802C-B13	2CCS882001R0135	POA
16	S802C-B16	2CCS882001R0165	POA
20	S802C-B20	2CCS882001R0205	POA
25	S802C-B25	2CCS882001R0255	56.98
32	S802C-B32	2CCS882001R0325	POA
40	S802C-B40	2CCS882001R0405	POA
50	S802C-B50	2CCS882001R0505	POA
63	S802C-B63	2CCS882001R0635	POA
80	S802C-B80	2CCS882001R0805	POA
100	S802C-B100	2CCS882001R0825	POA
125	S802C-B125	2CCS882001R0845	90.62

Rated Current (A)	Triple Pole	Order Code	Price
10	S803C-B10	2CCS883001R0105	83.32
13	S803C-B13	2CCS883001R0135	POA
16	S803C-B16	2CCS883001R0165	83.32
20	S803C-B20	2CCS883001R0205	83.32
25	S803C-B25	2CCS883001R0255	83.32
32	S803C-B32	2CCS883001R0325	83.32
40	S803C-B40	2CCS883001R0405	93.18
50	S803C-B50	2CCS883001R0505	93.18
63	S803C-B63	2CCS883001R0635	93.18
80	S803C-B80	2CCS883001R0805	108.48
100	S803C-B100	2CCS883001R0825	108.48
125	S803C-B125	2CCS883001R0845	112.59



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System ProM compact

S800C series - type B 25kA

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Type B 25kA

Rated Current (A)	Four Pole	Product Hierarchy 2400003	
		Order Code	Price
10	S804C-B10	2CCS884001R0105	POA
13	S804C-B13	2CCS884001R0135	POA
16	S804C-B16	2CCS884001R0165	POA
20	S804C-B20	2CCS884001R0205	POA
25	S804C-B25	2CCS884001R0255	POA
32	S804C-B32	2CCS884001R0325	POA
40	S804C-B40	2CCS884001R0405	POA
50	S804C-B50	2CCS884001R0505	POA
63	S804C-B63	2CCS884001R0635	POA
80	S804C-B80	2CCS884001R0805	144.74
100	S804C-B100	2CCS884001R0825	144.74
125	S804C-B125	2CCS884001R0845	165.36



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System ProM compact

S800C series - type C 25kA



Type C 25kA

Rated Current (A)	Single Pole	Product Hierarchy 2400003	
		Order Code	Price
10	S801C-C10	2CCS881001R0104	28.53
13	S801C-C13	2CCS881001R0134	POA
16	S801C-C16	2CCS881001R0164	28.53
20	S801C-C20	2CCS881001R0204	28.53
25	S801C-C25	2CCS881001R0254	28.53
32	S801C-C32	2CCS881001R0324	28.53
40	S801C-C40	2CCS881001R0404	31.83
50	S801C-C50	2CCS881001R0504	31.83
63	S801C-C63	2CCS881001R0634	31.83
80	S801C-C80	2CCS881001R0804	33.77
100	S801C-C100	2CCS881001R0824	33.77
125	S801C-C125	2CCS881001R0844	40.65

Rated Current (A)	Double Pole	Order Code	Price
10	S802C-C10	2CCS882001R0104	POA
13	S802C-C13	2CCS882001R0134	POA
16	S802C-C16	2CCS882001R0164	POA
20	S802C-C20	2CCS882001R0204	POA
25	S802C-C25	2CCS882001R0254	POA
32	S802C-C32	2CCS882001R0324	POA
40	S802C-C40	2CCS882001R0404	POA
50	S802C-C50	2CCS882001R0504	POA
63	S802C-C63	2CCS882001R0634	POA
80	S802C-C80	2CCS882001R0804	74.90
100	S802C-C100	2CCS882001R0824	POA
125	S802C-C125	2CCS882001R0844	90.62

Rated Current (A)	Triple Pole	Order Code	Price
10	S803C-C10	2CCS883001R0104	83.32
13	S803C-C13	2CCS883001R0134	POA
16	S803C-C16	2CCS883001R0164	83.32
20	S803C-C20	2CCS883001R0204	83.32
25	S803C-C25	2CCS883001R0254	83.32
32	S803C-C32	2CCS883001R0324	83.32
40	S803C-C40	2CCS883001R0404	93.18
50	S803C-C50	2CCS883001R0504	93.18
63	S803C-C63	2CCS883001R0634	93.18
80	S803C-C80	2CCS883001R0804	108.48
100	S803C-C100	2CCS883001R0824	108.48
125	S803C-C125	2CCS883001R0844	112.59

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System ProM compact

S800C series - type C 25kA

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Type C 25kA

Rated Current (A)	Four Pole	Product Hierarchy 2400003	
		Order Code	Price
10	S804C-C10	2CCS884001R0104	POA
13	S804C-C13	2CCS884001R0134	POA
16	S804C-C16	2CCS884001R0164	POA
20	S804C-C20	2CCS884001R0204	POA
25	S804C-C25	2CCS884001R0254	POA
32	S804C-C32	2CCS884001R0324	POA
40	S804C-C40	2CCS884001R0404	POA
50	S804C-C50	2CCS884001R0504	POA
63	S804C-C63	2CCS884001R0634	POA
80	S804C-C80	2CCS884001R0804	145.43
100	S804C-C100	2CCS884001R0824	145.43
125	S804C-C125	2CCS884001R0844	178.02



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System ProM compact

S800C series - type D 25kA



Type D 25kA

Product Hierarchy 2400003

Rated Current (A)	Single Pole	Product Hierarchy 2400003	
		Order Code	Price
10	S801C-D10	2CCS881001R0101	30.56
13	S801C-D13	2CCS881001R0131	POA
16	S801C-D16	2CCS881001R0161	30.56
20	S801C-D20	2CCS881001R0201	30.56
25	S801C-D25	2CCS881001R0251	30.56
32	S801C-D32	2CCS881001R0321	30.56
40	S801C-D40	2CCS881001R0401	34.16
50	S801C-D50	2CCS881001R0501	34.16
63	S801C-D63	2CCS881001R0631	34.16
80	S801C-D80	2CCS881001R0801	41.39
100	S801C-D100	2CCS881001R0821	41.39
125	S801C-D125	2CCS881001R0841	44.43

Rated Current (A)	Double Pole	Order Code	Price
10	S802C-D10	2CCS882001R0101	POA
13	S802C-D13	2CCS882001R0131	POA
16	S802C-D16	2CCS882001R0161	POA
20	S802C-D20	2CCS882001R0201	POA
25	S802C-D25	2CCS882001R0251	POA
32	S802C-D32	2CCS882001R0321	POA
40	S802C-D40	2CCS882001R0401	POA
50	S802C-D50	2CCS882001R0501	POA
63	S802C-D63	2CCS882001R0631	POA
80	S802C-D80	2CCS882001R0801	83.32
100	S802C-D100	2CCS882001R0821	POA
125	S802C-D125	2CCS882001R0841	POA

Rated Current (A)	Triple Pole	Order Code	Price
10	S803C-D10	2CCS883001R0101	88.80
13	S803C-D13	2CCS883001R0131	POA
16	S803C-D16	2CCS883001R0161	88.80
20	S803C-D20	2CCS883001R0201	88.80
25	S803C-D25	2CCS883001R0251	88.80
32	S803C-D32	2CCS883001R0321	88.80
40	S803C-D40	2CCS883001R0401	99.15
50	S803C-D50	2CCS883001R0501	99.15
63	S803C-D63	2CCS883001R0631	99.15
80	S803C-D80	2CCS883001R0801	120.12
100	S803C-D100	2CCS883001R0821	120.12
125	S803C-D125	2CCS883001R0841	128.46

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System ProM compact

S800C series - type D 25kA



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Type D 25kA

Rated Current (A)	Four Pole	Product Hierarchy 2400003	
		Order Code	Price
10	S804C-D10	2CCS884001R0101	POA
13	S804C-D13	2CCS884001R0131	POA
16	S804C-D16	2CCS884001R0161	POA
20	S804C-D20	2CCS884001R0201	POA
25	S804C-D25	2CCS884001R0251	129.36
32	S804C-D32	2CCS884001R0321	POA
40	S804C-D40	2CCS884001R0401	POA
50	S804C-D50	2CCS884001R0501	POA
63	S804C-D63	2CCS884001R0631	POA
80	S804C-D80	2CCS884001R0801	POA
100	S804C-D100	2CCS884001R0821	POA
125	S804C-D125	2CCS884001R0841	POA



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System ProM compact

S800C series - type K 25kA



Type K 25kA

Product Hierarchy 2400003

Rated Current (A)	Single Pole	Product Hierarchy 2400003	
		Order Code	Price
10	S801C-K10	2CCS881001R0427	POA
13	S801C-K13	2CCS881001R0447	POA
16	S801C-K16	2CCS881001R0467	POA
20	S801C-K20	2CCS881001R0487	POA
25	S801C-K25	2CCS881001R0517	POA
32	S801C-K32	2CCS881001R0537	POA
40	S801C-K40	2CCS881001R0557	POA
50	S801C-K50	2CCS881001R0577	POA
63	S801C-K63	2CCS881001R0597	POA
80	S801C-K80	2CCS881001R0627	POA
100	S801C-K100	2CCS881001R0637	POA
125	S801C-K125	2CCS881001R0647	POAPOA

Rated Current (A)	Double Pole	Order Code	Price
10	S802C-K10	2CCS882001R0427	POA
13	S802C-K13	2CCS882001R0447	POA
16	S802C-K16	2CCS882001R0467	POA
20	S802C-K20	2CCS882001R0487	POA
25	S802C-K25	2CCS882001R0517	POA
32	S802C-K32	2CCS882001R0537	POA
40	S802C-K40	2CCS882001R0557	POA
50	S802C-K50	2CCS882001R0577	POA
63	S802C-K63	2CCS882001R0597	POA
80	S802C-K80	2CCS882001R0627	POA
100	S802C-K100	2CCS882001R0637	POA
125	S802C-K125	2CCS882001R0647	POA

Rated Current (A)	Triple Pole	Order Code	Price
10	S803C-K10	2CCS883001R0427	POA
13	S803C-K13	2CCS883001R0447	POA
16	S803C-K16	2CCS883001R0467	POA
20	S803C-K20	2CCS883001R0487	POA
25	S803C-K25	2CCS883001R0517	POA
32	S803C-K32	2CCS883001R0537	POA
40	S803C-K40	2CCS883001R0557	POA
50	S803C-K50	2CCS883001R0577	POA
63	S803C-K63	2CCS883001R0597	POA
80	S803C-K80	2CCS883001R0627	POA
100	S803C-K100	2CCS883001R0637	POA
125	S803C-K125	2CCS883001R0647	POA

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System ProM compact S800C series - type K 25kA

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Type K 25kA

Rated Current (A)	Four Pole	Product Hierarchy 2400003	
		Order Code	Price
10	S804C-K10	2CCS884001R0427	POA
13	S804C-K13	2CCS884001R0447	POA
16	S804C-K16	2CCS884001R0467	POA
20	S804C-K20	2CCS884001R0487	POA
25	S804C-K25	2CCS884001R0517	POA
32	S804C-K32	2CCS884001R0537	POA
40	S804C-K40	2CCS884001R0557	POA
50	S804C-K50	2CCS884001R0577	POA
63	S804C-K63	2CCS884001R0597	POA
80	S804C-K80	2CCS884001R0627	POA
100	S804C-K100	2CCS884001R0637	POA
125	S804C-K125	2CCS884001R0647	POA



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System ProM compact

F200 AC type - 2 & 4 pole RCCBs



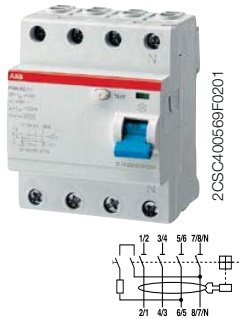
F200 AC Type RCCBs 2 Pole

AC - BS/EN 61008

Product Hierarchy 2500001

Rated Current	Tripping mA	Part No	Product Hierarchy 2500001	
			Order Code	Price
25	30	F202 AC-25/0.03	2CSF202001R1250	63.26
40		F202 AC-40/0.03	2CSF202001R1400	66.79
63		F202 AC-63/0.03	2CSF202001R1630	80.40
80		F202 AC-80/0.03	2CSF202001R1800	99.48
100		F202 AC-100/0.03	2CSF202001R1900	116.67
25	100	F202 AC-25/0.1	2CSF202001R2250	62.83
40		F202 AC-40/0.1	2CSF202001R2400	66.51
63		F202 AC-63/0.1	2CSF202001R2630	72.00
80		F202 AC-80/0.1	2CSF202001R2800	76.71
100		F202 AC-100/0.1	2CSF202001R2900	93.44
25	300	F202 AC-25/0.3	2CSF202001R3250	59.22
40		F202 AC-40/0.3	2CSF202001R3400	60.40
63		F202 AC-63/0.3	2CSF202001R3630	67.86
80		F202 AC-80/0.3	2CSF202001R3800	74.41
100		F202 AC-100/0.3	2CSF202001R3900	89.38

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F200 AC Type RCCBs 4 Pole

AC - BS/EN 61008

25	30	F204 AC-25/0.03	2CSF204001R1250	67.08
40		F204 AC-40/0.03	2CSF204001R1400	81.60
63		F204 AC-63/0.03	2CSF204001R1630	115.72
80		F204 AC-80/0.03	2CSF204001R1800	143.94
100		F204 AC-100/0.03	2CSF204001R1900	161.97
125	100	F204 AC-125/0.03	2CSF204001R1950	572.87
25		F204 AC-25/0.1	2CSF204001R2250	67.91
40		F204 AC-40/0.1	2CSF204001R2400	76.98
63		F204 AC-63/0.1	2CSF204001R2630	83.26
80		F204 AC-80/0.1	2CSF204001R2800	100.30
100	F204 AC-100/0.1	2CSF204001R2900	161.97	
125	F204 AC-125/0.1	2CSF204001R2950	531.53	
25	300	F204 AC-25/0.3	2CSF204001R3250	65.75
40		F204 AC-40/0.3	2CSF204001R3400	68.22
63		F204 AC-63/0.3	2CSF204001R3630	76.03
80		F204 AC-80/0.3	2CSF204001R3800	143.94
100		F204 AC-100/0.3	2CSF204001R3900	161.97
125	F204 AC-125/0.3	2CSF204001R3950	POA	



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System ProM compact

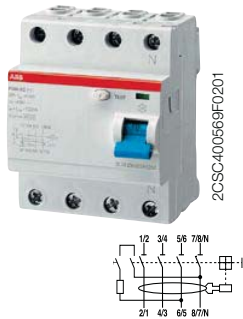
F200 A type - 2 & 4 pole RCCBs

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F200 A type RCCBs 2 Pole AC - BS/EN 61008

Rated Current	Tripping mA	Part No	Product Hierarchy 2500001	
			Order Code	Price
16	10	F202 A-16/0.01	2CSF202101R0160	86.80
25	30	F202 A-25/0.03	2CSF202101R1250	82.07
40		F202 A-40/0.03	2CSF202101R1400	83.71
63		F202 A-63/0.03	2CSF202101R1630	103.56
80		F202 A-80/0.03	2CSF202101R1800	111.56
100		F202 A-100/0.03	2CSF202101R1900	127.75
25	100	F202 A-25/0.1	2CSF202101R2250	76.00
40		F202 A-40/0.1	2CSF202101R2400	POA
63		F202 A-63/0.1	2CSF202101R2630	133.31
80		F202 A-80/0.1	2CSF202101R2800	POA
100		F202 A-100/0.1	2CSF202101R2900	127.75
25	300	F202 A-25/0.3	2CSF202101R3250	83.76
40		F202 A-40/0.3	2CSF202101R3400	87.18
63		F202 A-63/0.3	2CSF202101R3630	94.55
80		F202 A-80/0.3	2CSF202101R3800	103.42
100		F202 A-100/0.3	2CSF202101R3900	128.29



F200 A type RCCBs 4 Pole AC - BS/EN 61008

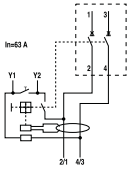
25	30	F204 A-25/0.03	2CSF204101R1250	87.92
40		F204 A-40/0.03	2CSF204101R1400	92.50
63		F204 A-63/0.03	2CSF204101R1630	109.96
80		F204 A-80/0.03	2CSF204101R1800	147.31
100		F204 A-100/0.03	2CSF204101R1900	182.03
125		F204 A-125/0.03	2CSF204101R1950	POA
25	100	F204 A-25/0.1	2CSF204101R2250	POA
40		F204 A-40/0.1	2CSF204101R2400	82.97
63		F204 A-63/0.1	2CSF204101R2630	109.96
80		F204 A-80/0.1	2CSF204101R2800	POA
100		F204 A-100/0.1	2CSF204101R2900	POA
125		F204 A-125/0.1	2CSF204101R2950	POA
25	300	F204 A-25/0.3	2CSF204101R3250	83.08
40		F204 A-40/0.3	2CSF204101R3400	97.69
63		F204 A-63/0.3	2CSF204101R3630	109.96
80		F204 A-80/0.3	2CSF204101R3800	122.91
100		F204 A-100/0.3	2CSF204101R3900	163.04
125		F204 A-125/0.3	2CSF204101R3950	POA



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System ProM compact

DDA200 AC type - 2, 3, 4 pole RCD block



2 pole - DDA 200 AC type

Rated Current	Tripping mA	Number of poles	Part No	Product Hierarchy 2500001	
				Order Code	Price
16	10	2	DDA202 AC-16/0.01	2CSB202001R0250	66.75
25	30	2	DDA202 AC-25/0.03	2CSB202001R1250	62.63
40			DDA202 AC-40/0.03	2CSB202001R1400	68.16
63			DDA202 AC-63/0.03	2CSB202001R1630	68.16
25	100	2	DDA202 AC-25/0.1	2CSB202001R2250	POA
40			DDA202 AC-40/0.1	2CSB202001R2400	POA
63			DDA202 AC-63/0.1	2CSB202001R2630	84.30
25	300	2	DDA204 AC-25/0.3	2CSB202001R3250	36.42
40			DDA204 AC-40/0.3	2CSB202001R3400	POA
63			DDA204 AC-63/0.3	2CSB202001R3630	71.39

2

3 pole - DDA 200 AC type

Rated Current	Tripping mA	Number of poles	Part No	Product Hierarchy 2500001	
				Order Code	Price
25	30	3	DDA203 AC-25/0.03	2CSB203001R1250	82.32
40			DDA203 AC-40/0.03	2CSB203001R1400	76.00
63			DDA203 AC-63/0.03	2CSB203001R1630	82.35
25	100	3	DDA203 AC-25/0.1	2CSB203001R2250	POA
40			DDA203 AC-40/0.1	2CSB203001R2400	POA
63			DDA203 AC-63/0.1	2CSB203001R2630	82.35
25	300	3	DDA203 AC-25/0.3	2CSB203001R3250	41.74
40			DDA203 AC-40/0.3	2CSB203001R3400	POA
63			DDA203 AC-63/0.3	2CSB203001R3630	76.19

4 pole - DDA 200 AC type

Rated Current	Tripping mA	Number of poles	Part No	Product Hierarchy 2500001	
				Order Code	Price
25	30	4	DDA204 AC-25/0.03	2CSB204001R1250	48.47
40			DDA204 AC-40/0.03	2CSB204001R1400	78.15
63			DDA204 AC-63/0.03	2CSB204001R1630	90.02
25	100	4	DDA204 AC-25/0.1	2CSB204001R2250	52.14
40			DDA204 AC-40/0.1	2CSB204001R2400	POA
63			DDA204 AC-63/0.1	2CSB204001R2630	90.02
25	300	4	DDA204 AC-25/0.3	2CSB204001R3250	43.93
40			DDA204 AC-40/0.3	2CSB204001R3400	POA
63			DDA204 AC-63/0.3	2CSB204001R3630	82.78

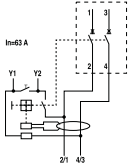


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System ProM compact

DDA200 A type - 2, 3, 4 pole RCD block

2



2 pole - DDA 200 A type

Rated Current	Tripping mA	Number of poles	Part No	Product Hierarchy 2500001	
				Order Code	Price
16	10	2	DDA202 A-16/0.01	2CSB202101R0250	83.39
25			DDA202 A-25/0.03	2CSB202101R1250	54.01
40			DDA202 A-40/0.03	2CSB202101R1400	POA
63	30	2	DDA202 A-63/0.03	2CSB202101R1630	71.06
25			DDA202 A-25/0.1	2CSB202101R2250	POA
40			DDA202 A-40/0.1	2CSB202101R2400	POA
63	100	2	DDA202 A-63/0.1	2CSB202101R2630	POA
25			DDA204 A-25/0.3	2CSB202101R3250	51.66
40			DDA204 A-40/0.3	2CSB202101R3400	55.59
63	300	2	DDA204 A-63/0.3	2CSB202101R3630	71.39

3 pole - DDA 200 A type

Rated Current	Tripping mA	Number of poles	Part No	Product Hierarchy 2500001	
				Order Code	Price
25	30	3	DDA203 A-25/0.03	2CSB203101R1250	99.12
40			DDA203 A-40/0.03	2CSB203101R1400	POA
63			DDA203 A-63/0.03	2CSB203101R1630	82.35
25	100	3	DDA203 A-25/0.1	2CSB203101R2250	POA
40			DDA203 A-40/0.1	2CSB203101R2400	POA
63			DDA203 A-63/0.1	2CSB203101R2630	POA
25	300	3	DDA203 A-25/0.3	2CSB203101R3250	POA
40			DDA203 A-40/0.3	2CSB203101R3400	66.88
63			DDA203 A-63/0.3	2CSB203101R3630	66.88

4 pole - DDA 200 A type

Rated Current	Tripping mA	Number of poles	Part No	Product Hierarchy 2500001	
				Order Code	Price
25	30	4	DDA204 A-25/0.03	2CSB204101R1250	POA
40			DDA204 A-40/0.03	2CSB204101R1400	89.78
63			DDA204 A-63/0.03	2CSB204101R1630	POA
25	100	4	DDA204 A-25/0.1	2CSB204101R2250	89.78
40			DDA204 A-40/0.1	2CSB204101R2400	89.78
63			DDA204 A-63/0.1	2CSB204101R2630	POA
25	300	4	DDA204 A-25/0.3	2CSB204101R3250	POA
40			DDA204 A-40/0.3	2CSB204101R3400	89.78
63			DDA204 A-63/0.3	2CSB204101R3630	POA



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System ProM compact

DS201M AC type - 1+N pole RCBO

1+N - Type B 10kA

1+N - Type B 10kA				Product Hierarchy 2500001	
Rated Current	Tripping mA	Number of poles	Part No	Order Code	Price
6	30	1+N	DS201M-B6 AC30	2CSR275040R1065	POA
10			DS201M-B10 AC30	2CSR275040R1105	POA
13			DS201M-B13 AC30	2CSR275040R1135	POA
16			DS201M-B16 AC30	2CSR275040R1165	85.76
20			DS201M-B20 AC30	2CSR275040R1205	POA
25			DS201M-B25 AC30	2CSR275040R1255	POA
32			DS201M-B32 AC30	2CSR275040R1325	POA
40			DS201M-B40 AC30	2CSR275040R1405	POA
6			100	1+N	DS201M-B6 AC100
10	DS201M-B10 AC100	2CSR275040R2105			POA
13	DS201M-B13 AC100	2CSR275040R2135			POA
16	DS201M-B16 AC100	2CSR275040R2165			POA
20	DS201M-B20 AC100	2CSR275040R2205			POA
25	DS201M-B25 AC100	2CSR275040R2255			POA
32	DS201M-B32 AC100	2CSR275040R2325			POA
40	DS201M-B40 AC100	2CSR275040R2405			POA
6	300	1+N			DS201M-B6 AC300
10			DS201M-B10 AC300	2CSR275040R3105	POA
13			DS201M-B13 AC300	2CSR275040R3135	POA
16			DS201M-B16 AC300	2CSR275040R3165	POA
20			DS201M-B20 AC300	2CSR275040R3205	POA
25			DS201M-B25 AC300	2CSR275040R3255	POA
32			DS201M-B32 AC300	2CSR275040R3325	POA
40			DS201M-B40 AC300	2CSR275040R3405	POA

2

1+N - Type C 10kA

6	30	1+N	DS201M-C6 AC30	2CSR275040R1064	83.26
10			DS201M-C10 AC30	2CSR275040R1104	83.26
13			DS201M-C13 AC30	2CSR275040R1134	80.06
16			DS201M-C16 AC30	2CSR275040R1164	83.26
20			DS201M-C20 AC30	2CSR275040R1204	83.26
25			DS201M-C25 AC30	2CSR275040R1254	83.26
32			DS201M-C32 AC30	2CSR275040R1324	83.26
40			DS201M-C40 AC30	2CSR275040R1404	57.76
6			100	1+N	DS201M-C6 AC100
10	DS201M-C10 AC100	2CSR275040R2104			POA
13	DS201M-C13 AC100	2CSR275040R2134			POA
16	DS201M-C16 AC100	2CSR275040R2164			POA
20	DS201M-C20 AC100	2CSR275040R2204			POA
25	DS201M-C25 AC100	2CSR275040R2254			POA
32	DS201M-C32 AC100	2CSR275040R2324			POA
40	DS201M-C40 AC100	2CSR275040R2404			77.05
6	300	1+N			DS201M-C6 AC300
10			DS201M-C10 AC300	2CSR275040R3104	POA
13			DS201M-C13 AC300	2CSR275040R3134	POA
16			DS201M-C16 AC300	2CSR275040R3164	POA
20			DS201M-C20 AC300	2CSR275040R3204	POA
25			DS201M-C25 AC300	2CSR275040R3254	77.05
32			DS201M-C32 AC300	2CSR275040R3324	POA
40			DS201M-C40 AC300	2CSR275040R3404	POA



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System ProM compact

DS 201M-B A type - 1+N pole RCBO

2

1+N - Type B 10kA				Product Hierarchy 2500001	
Rated Current	Tripping mA	Number of poles	Part No	Order Code	Price
10	10	1+N	DS201M-B10 A10	2CSR275140R0105	POA
16			DS201M-B16 A10	2CSR275140R0165	POA
6	30	1+N	DS201M-B6 A30	2CSR275140R1065	POA
10			DS201M-B10 A30	2CSR275140R1105	83.26
13			DS201M-B13 A30	2CSR275140R1135	POA
16			DS201M-B16 A30	2CSR275140R1165	83.26
20			DS201M-B20 A30	2CSR275140R1205	73.43
25			DS201M-B25 A30	2CSR275140R1255	POA
32			DS201M-B32 A30	2CSR275140R1325	POA
40			DS201M-B40 A30	2CSR275140R1405	POA
6	100	1+N	DS201M-B6 A100	2CSR275140R2065	POA
10			DS201M-B10 A100	2CSR275140R2105	POA
13			DS201M-B13 A100	2CSR275140R2135	83.26
16			DS201M-B16 A100	2CSR275140R2165	80.23
20			DS201M-B20 A100	2CSR275140R2205	73.43
25			DS201M-B25 A100	2CSR275140R2255	POA
32			DS201M-B32 A100	2CSR275140R2325	83.26
40			DS201M-B40 A100	2CSR275140R2405	73.43
6	300	1+N	DS201M-B6 A300	2CSR275140R3065	POA
10			DS201M-B10 A300	2CSR275140R3105	POA
13			DS201M-B13 A300	2CSR275140R3135	POA
16			DS201M-B16 A300	2CSR275140R3165	POA
20			DS201M-B20 A300	2CSR275140R3205	POA
25			DS201M-B25 A300	2CSR275140R3255	POA
32			DS201M-B32 A300	2CSR275140R3325	80.23
40			DS201M-B40 A300	2CSR275140R3405	73.43



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System ProM compact

DS 201M-C A type - 1+N pole RCBO

1+N - Type C 10kA

1+N - Type C 10kA				Product Hierarchy 2500001	
Rated Current	Tripping mA	Number of poles	Part No	Order Code	Price
10	10	1+N	DS201M-C10 A10	2CSR275140R0104	POA
16			DS201M-C16 A10	2CSR275140R0164	POA
6	30	1+N	DS201M-C6 A30	2CSR275140R1064	POA
10			DS201M-C10 A30	2CSR275140R1104	83.26
13			DS201M-C13 A30	2CSR275140R1134	POA
16			DS201M-C16 A30	2CSR275140R1164	POA
20			DS201M-C20 A30	2CSR275140R1204	POA
25			DS201M-C25 A30	2CSR275140R1254	POA
32			DS201M-C32 A30	2CSR275140R1324	POA
40			DS201M-C40 A30	2CSR275140R1404	POA
6	100	1+N	DS201M-C6 A100	2CSR275140R2064	POA
10			DS201M-C10 A100	2CSR275140R2104	POA
13			DS201M-C13 A100	2CSR275140R2134	POA
16			DS201M-C16 A100	2CSR275140R2164	POA
20			DS201M-C20 A100	2CSR275140R2204	POA
25			DS201M-C25 A100	2CSR275140R2254	83.26
32			DS201M-C32 A100	2CSR275140R2324	83.26
40			DS201M-C40 A100	2CSR275140R2404	POA
6	300	1+N	DS201M-C6 A300	2CSR275140R3064	POA
10			DS201M-C10 A300	2CSR275140R3104	POA
13			DS201M-C13 A300	2CSR275140R3134	POA
16			DS201M-C16 A300	2CSR275140R3164	POA
20			DS201M-C20 A300	2CSR275140R3204	POA
25			DS201M-C25 A300	2CSR275140R3254	POA
32			DS201M-C32 A300	2CSR275140R3324	POA
40			DS201M-C40 AC300	2CSR275140R3404	POA

2



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DDA800 A_type - 2, 3, 4 RCBO

2

DDA800 50kA					Product Hierarchy 2500001	
Number of Poles	Type	Rating In A	Tripping mA	Part No	Order Code	Price
2	A	63	30	DDA802A-63/0,03AP-R	2CSB802401R1630	POA
				DDA802A-63/0,03	2CSB802101R1630	POA
	AC		300	DDA802AC-63/0,3	2CSB802001R3630	131.31
				DDA802AS-63/0,3	2CSB802201R3630	POA
	A		500	DDA802A-63/0,3	2CSB802101R3630	POA
				DDA802A-63/0,5	2CSB802101R4630	POA
AS	1000	DDA802AS-63/1	2CSB802201R5630	POA		
3	A	63	30	DDA803A-63/0,03AP-R	2CSB803401R1630	POA
				DDA803A-63/0,03	2CSB803101R1630	290.57
	AC		300	DDA803AC-63/0,03	2CSB803001R1630	218.75
	A			DDA803A-63/0,3	2CSB803101R3630	POA
	AC		DDA803AC-63/0,3	2CSB803001R3630	164.09	
	AS		DDA803AS-63/0,3	2CSB803201R3630	POA	
A	500	DDA803A-63/0,5	2CSB803101R4630	POA		
		AS	1000	DDA803AS-63/1	2CSB803201R5630	POA
4	A	100	30	DDA804A-63/0,03AP-R	2CSB804401R1630	POA
				DDA804A-63/0,03	2CSB804101R1630	POA
	AC		300	DDA804AC-63/0,03	2CSB804001R1630	236.26
	A			DDA804A-63/0,3	2CSB804101R3630	POA
	AC		DDA804AC-63/0,3	2CSB804001R3630	177.23	
	AS		DDA804AS-63/0,3	2CSB804201R3630	131.31	
	A		500	DDA804A-63/0,5	2CSB804101R4630	POA
				AS	1000	DDA804AS-63/1
A	300	DDA804 A-100/0,3	2CSB804101R3000	POA		



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System ProM compact DS271 AC Type RCBOs



DS271 AC type B 10kA

Current (A)	Sensitivity	Type B - 10kA	Product Hierarchy 2500002	
			Order Code	Price
6	10mA	DS271 AC-B6/0.01	2CSR175092R0065	POA
10		DS271 AC-B10/0.01	2CSR175092R0105	POA
16		DS271 AC-B16/0.01	2CSR175092R0165	69.13
20		DS271 AC-B20/0.01	2CSR175092R0205	67.12
25		DS271 AC-B25/0.01	2CSR175092R0255	290.57
32		DS271 AC-B32/0.01	2CSR175092R0325	67.12
6	30mA	DS271 AC-B6/0.03	2CSR175092R1065	69.13
10		DS271 AC-B10/0.03	2CSR175092R1105	69.13
16		DS271 AC-B16/0.03	2CSR175092R1165	69.13
20		DS271 AC-B20/0.03	2CSR175092R1205	69.13
25		DS271 AC-B25/0.03	2CSR175092R1255	69.13
32		DS271 AC-B32/0.03	2CSR175092R1325	69.13

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DS271 AC type C 10kA

6	10mA	DS271 AC-C6/0.01	2CSR175092R0064	218.75
10		DS271 AC-C10/0.01	2CSR175092R0104	POA
16		DS271 AC-C16/0.01	2CSR175092R0164	69.13
20		DS271 AC-C20/0.01	2CSR175092R0204	69.13
25		DS271 AC-C25/0.01	2CSR175092R0254	164.09
32		DS271 AC-C32/0.01	2CSR175092R0324	POA
6	30mA	DS271 AC-C6/0.03	2CSR175092R1064	69.13
10		DS271 AC-C10/0.03	2CSR175092R1104	69.13
16		DS271 AC-C16/0.03	2CSR175092R1164	69.13
20		DS271 AC-C20/0.03	2CSR175092R1204	69.13
25		DS271 AC-C25/0.03	2CSR175092R1254	69.13
32		DS271 AC-C32/0.03	2CSR175092R1324	69.13
6	100mA	DS271 AC-C6/0.1	2CSR175092R2064	69.13
10		DS271 AC-C10/0.1	2CSR175092R2104	69.13
16		DS271 AC-C16/0.1	2CSR175092R2164	69.13
20		DS271 AC-C20/0.1	2CSR175092R2204	69.13
25		DS271 AC-C25/0.1	2CSR175092R2254	69.13
32		DS271 AC-C32/0.1	2CSR175092R2324	69.13
6	300mA	DS271 AC-C6/0.03	2CSR175092R3064	POA
10		DS271 AC-C10/0.03	2CSR175092R3104	POA
16		DS271 AC-C16/0.03	2CSR175092R3164	POA
20		DS271 AC-C20/0.03	2CSR175092R3204	POA
25		DS271 AC-C25/0.03	2CSR175092R3254	236.26
32		DS271 AC-C32/0.03	2CSR175092R3324	POA



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System ProM compact DS271 A Type RCBOs

2



DS271 A type B 10kA

Current (A)	Sensitivity	Type B - 10k A	Product Hierarchy 2500002	
			Order Code	Price
6	10mA	DS271 A-B6/0.01	2CSR175192R0065	177.23
10		DS271 A-B10/0.01	2CSR175192R0105	POA
16		DS271 A-B16/0.01	2CSR175192R0165	POA
20		DS271 A-B20/0.01	2CSR175192R0205	POA
25		DS271 A-B25/0.01	2CSR175192R0255	POA
32		DS271 A-B32/0.01	2CSR175192R0325	POA
6	30mA	DS271 A-B6/0.03	2CSR175192R1065	69.12
10		DS271 A-B10/0.03	2CSR175192R1105	67.11
16		DS271 A-B16/0.03	2CSR175192R1165	69.12
20		DS271 A-B20/0.03	2CSR175192R1205	72.56
25		DS271 A-B25/0.03	2CSR175192R1255	POA
32		DS271 A-B32/0.03	2CSR175192R1325	69.13

DS271 A type C 10kA

6	10mA	DS271 A-C6/0.01	2CSR175192R0064	POA
10		DS271 A-C10/0.01	2CSR175192R0104	POA
16		DS271 A-C16/0.01	2CSR175192R0164	POA
20		DS271 A-C20/0.01	2CSR175192R0204	POA
25		DS271 A-C25/0.01	2CSR175192R0254	POA
32		DS271 A-C32/0.01	2CSR175192R0324	POA
6	30mA	DS271 A-C6/0.03	2CSR175192R1064	POA
10		DS271 A-C10/0.03	2CSR175192R1104	POA
16		DS271 A-C16/0.03	2CSR175192R1164	66.81
20		DS271 A-C20/0.03	2CSR175192R1204	66.81
25		DS271 A-C25/0.03	2CSR175192R1254	POA
32		DS271 A-C32/0.03	2CSR175192R1324	72.56
6	100mA	DS271 A-C6/0.1	2CSR175192R2064	POA
10		DS271 A-C10/0.1	2CSR175192R2104	POA
16		DS271 A-C16/0.1	2CSR175192R2164	POA
20		DS271 A-C20/0.1	2CSR175192R2204	POA
25		DS271 A-C25/0.1	2CSR175192R2254	POA
32		DS271 A-C32/0.1	2CSR175192R2324	POA
6	300mA	DS271 A-C6/0.3	2CSR175192R3064	POA
10		DS271 A-C10/0.3	2CSR175192R3104	POA
16		DS271 A-C16/0.3	2CSR175192R3164	POA
20		DS271 A-C20/0.3	2CSR175192R3204	POA
25		DS271 A-C25/0.3	2CSR175192R3254	POA
32		DS271 A-C32/0.3	2CSR175192R3324	POA



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System ProM compact

Accessories S200, SN201, F200, DS200



Accessories

Product Hierarchy 2400002

Description	Suitable for:	Part No	Product Hierarchy 2400002	
			Order Code	Price
Auxiliary contacts				
Aux switch 1 c/o	S200, SN201, F200 DS200	S2C-S/H6R	2CDS200922R0001	16.28
Aux contact 1 c/o		S2C-H6R	2CDS200912R0001	13.68
Aux contact 1no/1nc		S2C-H6-11R	2CDS200946R0001	POA
Aux contact 2no		S2C-H6-20R	2CDS200946R0002	POA
Aux contact 2nc		S2C-H6-02R	2CDS200946R0003	POA
Aux contact 1nc	S200, S200M, S200P	S2C-H01	2CDS200970R0001	12.38
Aux contact 1no		S2C-H10	2CDS200970R0002	12.38
Aux contact 1nc (15 pieces)	S200, S200M, S200P	S2C-H01 15x	2CDS200970R0011	7.72
Aux contact 1no (15 pieces)		S2C-H10 15x	2CDS200970R0012	7.72
Signal contact 1no/1nc	SN201	SN201-S	2CDS200924R0001	20.25
Shunt trips				
AC/DC 12-60v	All	S2C-A1	2CDS200909R0001	25.20
AC110-415v DC110-250v		S2C-A2	2CDS200909R0002	25.20
Under voltage release				
12-DC	All	S2C-UA 12-DC	2CSS200911R0001	43.43
24AC		S2C-UA 24AC	2CSS200911R0002	43.43
24-DC		S2C-UA 24-DC	2CSS200911R0007	43.43
48AC		S2C-UA 48AC	2CSS200911R0003	43.43
48DC		S2C-UA 48DC	2CSS200911R0008	43.43
110AC		S2C-UA 110AC	2CSS200911R0004	43.43
110DC		S2C-UA 110DC	2CSS200911R0009	43.43
230AC		S2C-UA 230AC	2CSS200911R0005	43.43
230DC		S2C-UA 230DC	2CSS200911R0010	43.43
440AC		S2C-UA 440AC	2CSS200911R0006	43.43
Overvoltage release				
275AC max tripping voltage	All	S2C-OVP1	2CSS200910R0005	POA
290AC max tripping voltage		S2C-OVP2	2CSS200993R0005	POA
Motor operator				
Motor operator	2/3 pole S200 MCB	S2C-CM2/3	2CSS203997R0013	145.22
Auto-reclosing unit				
Auto re-closing unit	2/4 F200 RCCB	F2C-ARI	2CSR200996R0013	66.81

2

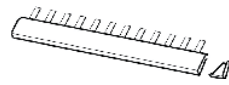


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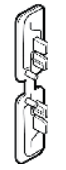
System ProM compact

Accessories S200, SN201, F200, DS200

2



END 1.1



PS-END 0



PS-END



END



SZ-FDT 2



SZ-FST 2 + SZ-FDT 2



SZ-BP 1



SZ-BP



SZ-BP 2



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Accessories					Product Hierarchy 2400002		
	No of pins	Phases	mm ²	Part No	Order Code	Price	
Busbars							
Pin distance 17.6mm end caps PS-END	58	2	10	PS2/58	2CDL220001R1058	35.46	
			16	PS2/58/16	2CDL220001R1658	35.39	
2 pole + aux end caps PS-END	48	2	16	PS2/48/16H	2CDL220001R1648	51.48	
Pin distance 17.6mm end caps PS-END	60	3	16	PS3/60/16	2CDL230001R1660	49.36	
3 pole + aux end caps PS-END	48	3	16	PS3/48/16H	2CDL230001R1640	POA	
Pin distance 17.6mm end caps PS-END	60	4	16	PS4/60/16	2CDL240101R1660	68.11	
Pre assembled busbars (not to be cut)							
1-phase busbars pin distance 17.6mm	6	1	16	PS1/6/16BP	2CDL210489R1606	6.03	
	12			PS1/12/16BP	2CDL210489R1612	9.62	
	18			PS1/18/16BP	2CDL210489R1618	12.97	
2-phase busbars pin distance 17.6mm	6	2	16	PS2/6/16BP	2CDL220489R1606	7.08	
	12			PS2/12/16BP	2CDL220489R1612	11.36	
	18			PS2/18/16BP	2CDL220489R1618	16.05	
3-phase busbars pin distance 17.6mm	6	3	16	PS3/6/16BP	2CDL230489R1606	8.17	
	12			PS3/12/16BP	2CDL230489R1612	14.73	
	18			PS3/18/16BP	2CDL230489R1618	20.09	
Busbars suitable for cutting							
1-phase busbars pin distance 17.6mm	60	1	16	PS1/60	2CDL210001R1060	11.34	
1-phase busbars connection 1 pole + aux	38			PS1/38/16H	2CDL210001R1638	15.92	
End caps							
				END 1.1	2CDL200011R0011	0.71	
				PS-END 0	2CDL200011R0004	POA	
				PS-END	2CDL200011R0001	POA	
				PS-END 1	2CDL200011R0002	POA	
				PS-END SP	2CDL200110R0001	1.33	
				PS-END 1 SP	2CDL200110R0002	POA	
				PS-END 3	2CDL200001R3001	0.85	
				PS-END 3.1	2CDL200001R3002	0.99	
				PSB-END 3	GHVO361325R0001	POA	
				PSB-END 4	GHVO361325R0002	POA	
				Protection caps (5 pieces)	SZ-BSK	2CDL200001R0011	1.49
Feeder terminals							
			6-35	SZ-ESK 2	2CDL200001R3501	3.38	
			6-50	SZ-ESK 3	2CDL200003R5001	3.74	
				SZ-ESK 3S	2CDL200003R5003	3.74	

System ProM compact

Accessories S800



Accessories

Product Hierarchy 2400002

Description	Part No	Product Hierarchy 2400002	
		Order Code	Price
Signal contacts			
Aux contact	S800-AUX	2CCS800900R0011	24.08
Aux/signal contact	S800-AUX/ALT	2CCS800900R0021	26.93
Separating neutral 63A	S800-NT	2CCS800900R0061	38.96
Shunt trips			
12v AC/DC	S800-SOR12	2CCS800900R0191	47.81
24v AC/DC	S800-SOR24	2CCS800900R0191	47.81
48...130v AC/DC	S800-SOR130	2CCS800900R0221	47.81
110...250v AC/DC	S800-SOR250	2CCS800900R0211	47.81
220...400v AC/DC	S800-SOR400	2CCS800900R0231	47.81
Under voltage release			
24...36v AC/DC	S800-UVR36	2CCS800900R0241	60.91
48...60v AC/DC	S800-UVR60	2CCS800900R0251	60.91
110...130v AC/DC	S800-UVR130	2CCS800900R0261	60.91
220...250v AC/DC	S800-UVR250	2CCS800900R0271	60.91
Handles			
Rotary drive	S800-RD	2CCS800900R0041	37.19
Black rotary handle	S800-RHE-H	1SDA060150R1	27.28
Red/emergency rotary handle	S800-RHE-EM	1SDA060151R1	27.28
Axial extension 500mm for RHE	S800-RHE-S	1SDA060179R1	13.46
General accessories			
Intermediate piece 9mm	S800-IP9	2CCS800900R0031	1.23
Padlock device with 4mm hasp	S800-PLL	2CCS800900R0051	3.55
UL locking device	S800U-PPL	2CCS800017R0001	POA
Busbar 250A	S803-BB250	2CCS800900R0071	129.29

2



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System ProM compact

Digital energy meters



DCB13000

2

Digital Meters

Description	Part No	Product Hierarchy 2700001	
		Order Code	Price
ODIN Single Phase, Direct Connected	OD1065	2CMA131040R1000	88.50
ODIN Single Phase, Pulse Output, Direct Connected	OD1365	2CMA131041R1000	98.33
DELTA Single Phase - 2 Tariff with Pulse Output	FBB11205	2CMA180894R1000	121.28
DELTA Single Phase - 2 Tariff	FBU11205	2CMA180893R1000	114.72
ODIN 3 Phase + N - 1 Pulse Output, Direct Connected	OD4165	2CMA131024R1000	177.01
ODIN 3 Phase + N - 1 Pulse Output, CT Connected	OD4110	2CMA131025R1000	177.01
DELTA Plus 3 phase + N - 1 Tariff with Pulse Output	DAB13000	2CMA180806R1000	222.89
DELTA Max 3 phase + N - 2 Tariff with Internal Clock and THD	DEB13005	2CMA139495R1000	291.73
DELTA Max 3 phase + N - 2 Tariff with Time Dependant Functions and THD	DEB13007	2CMA139497R1000	272.06

Communication Adaptors

Description	Part No	Product Hierarchy 2700001	
		Order Code	Price
LON PLC A-Band Adaptor	CAL 06000	2CMA137100R1000	176.01
Ethernet Adaptor	CEM 05100	2CMA137121R1000	140.95
M-bus (Meter Bus) Adaptor	CTM 04000	2CMA137090R1000	124.56
LON PLC C-Band Adaptor	CCL 06000	2CMA137103R1000	176.01
RS232 Adaptor	CRM04000	2CMA137091R1000	124.56



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System ProM compact

Modular devices



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Timers

	Product Hierarchy 2700001	
	Order Code	Price
Analogue AT3-7R timer 7 day c/w reserve	2CSM204245R0601	82.61
Analogue AT3-R daily timer with reserve	2CSM204235R0601	84.41
Digital DT1 1 channel weekly time switch	2CSM204255R0611	105.69

Isolators

E202/100R 2P 100A	2CDE282001R0100	20.43
E202/125R 2P 125A	2CDE282001R0125	39.29
E202/63R 2P 63A	2CDE282001R0063	22.90
E203/100R 3P 100A	2CDE283001R0100	40.46
E203/125R 3P 125A	2CDE283001R0125	58.41
E204/125R 4P 125A	2CDE284001R0125	73.63
E204/63R 4P 63A	2CDE284001R0063	44.61

Contactors

EH04-20 ESB Aux 2no	GHE3401321R0001	15.40
ESB20-02 Contactor 2nc 24V	GHE3211202R0001	23.55
ESB24-04 Contactor 4no 24V	GHE3291202R0001	34.04
ESB-DIS Distance Piece	GHE3201902R0001	1.05

Fuseholders

E91/32 SP Fuseholder 32A 10.3x38	2CSM200923R1801	3.03
E931/125 E931/125A Fuse Carrier	2CSM371710R1801	3.03

Toroidal Transformers

TR2 60mm	2CSG060100R1211	95.11
TR3 80mm	2CSG080100R1211	113.30
TR4 110mm	2CSG110100R1211	131.25

Twilight Switch

TW1	2CSM204135R1341	49.84
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Surge Suppressors

	Product Hierarchy 6000002	
	Order Code	Price
OVR T1 3N 255 25TS Type1 3P&N	2CTB815101R0700	767.17
OVR T2 3N 40 275 SPTS Type 2 3P&N	2CTB803953R0200	202.90

2

Power Breakers



Tmax MCCBs

- Overview 3/2
- Tmax XT1-XT4 3/6
- Tmax T5-T7..... 3/12
- Tmax switch disconnectors 3/18
- Tmax accessories..... 3/20

Emax ACBs

- Emax X1 ACBs and X1 disconnectors..... 3/35
- Emax E1 to E6 automatic ACBs..... 3/36
- E4/f 100% 4th pole automatic ACBs..... 3/43
- E1-E6 switch disconnectors 3/45
- E4/f 100% 4th pole switch disconnectors 3/47
- Fixed parts 3/48
- Emax accessories 3/50

3



Tmax MCCBs



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Emax ACBs



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1SDC200009D0203

New Tmax XT XTraordinarily powerful

3

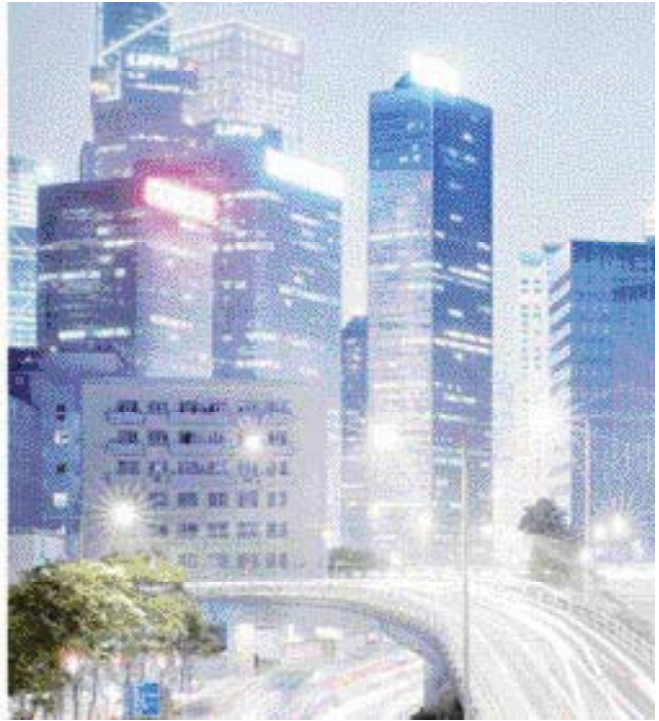


There are 4 frame sizes in the Tmax XT range

- the small XT1 up to 160A
- the high-performing XT2 up to 160A
- the reliable XT3 up to 250A
- the powerful XT4 up to 250A.



Tmax XT1 to XT3 XTraordinarily reliable



3

The new Tmax XT1 and XT3 are XTraordinary reliable. They are circuit-breakers that excel in industrial, marine and commercial installations. Available in the fixed and plug-in, three-pole and four-pole versions with a variety protection trip units.

Tmax XT1 and XT3 can be used in installations for large-scale distribution, in hospitals and in all the service sector applications which require great reliability. The Tmax XT3 circuit-breakers can be used for motor protection, for generator protection and as switch-disconnectors.



Tmax XT2 to XT4 XTraordinarily advanced

3



You are looking at two even more extraordinary circuit breakers. Tmax XT2 and XT4 which offer advanced performances up to 150kA and functionality that can be used in the most technologically advanced installations heavy industry, metallurgy and marine, in the fixed, plug-in and withdrawable versions with both thermomagnetic and electronic interchangeable trip units.

- the Ekip Display, to be applied onto the front of the electronic trip unit for simpler setting and for better reading of information
- the Ekip LED Meter, a device to be installed on the front of the trip unit to simplify current readings
- the Ekip TT, the new trip test unit
- the Ekip T&P, the extraordinary testing and programming unit.



Tmax accessories

XTraordinarily versatile



3

Welcome to the world of opportunities offered by the brand-new and standardised range of accessories made for all the frames in the Tmax XT family.

XTraordinary versatile range of accessories with simple installation

- magnetic only releases
- electronic releases
- shunt trips
- under voltage release
- time delayed UVR
- signal contacts, trip contacts, position contacts
- motor operators
- various terminal arrangements
- rotary handles
- keylocks for circuit breaker, handles, motor operator, position of circuit breaker



Power distribution circuit breakers

Tmax XT1 - C, N, S thermomagnetic



Ratings @ 400V

	Icu	Ics
XT1C	25kA	100%
XT1N	36kA	75%
XT1S	50kA	75%

Protection types available

Type	Settings	
	I _{th}	I _m
Standard Distribution (3&4 pole)	70-100%	10xI _{th} (*)

*Subject to a minimum value of 450A

Fixed Pattern Circuit Breaker

Supplied as standard with front bar terminals for busbar - for other terminals see accessories section

Thermomagnetic TMA

3

Model	Current [A]		Product Hierarchy 3000004			
	I _{th} /I _n	I ₃	3 Pole		4 Pole	
				Price		Price
XT1C	XT1C160R25	450A	1SDA067391R1	135.23	1SDA067400R1	169.05
	XT1C160R32		1SDA067392R1	138.15	1SDA067401R1	172.69
	XT1C160R40		1SDA067393R1	138.15	1SDA067402R1	172.69
	XT1C160R50	500A	1SDA067394R1	138.15	1SDA067403R1	172.69
	XT1C160R63	630A	1SDA067395R1	142.51	1SDA067404R1	178.15
	XT1C160R80	800A	1SDA067396R1	142.51	1SDA067405R1	178.15
	XT1C160R100	1000A	1SDA067397R1	145.42	1SDA067410R1	309.04
	XT1C160R125	1250A	1SDA067398R1	196.31	1SDA067409R1	245.41
	XT1C160R160	1600A	1SDA067399R1	247.21	1SDA067641R1	294.37
XT1N	XT1N160R32	450A	1SDA067411R1	142.51	1SDA067419R1	178.13
	XT1N160R40		1SDA067412R1	142.51	1SDA067647R1	296.66
	XT1N160R50	500A	1SDA067413R1	142.51	1SDA067421R1	178.13
	XT1N160R63	630A	1SDA067414R1	147.01	1SDA067422R1	183.76
	XT1N160R80	800A	1SDA067415R1	147.01	1SDA067423R1	183.76
	XT1N160R100	1000A	1SDA067416R1	150.01	1SDA067424R1	187.51
	XT1N160R125	1250A	1SDA067417R1	202.52	1SDA067427R1	253.13
	XT1N160R160	1600A	1SDA067418R1	255.02	1SDA067428R1	318.77
XT1S	XT1S160R50	500A	1SDA067431R1	161.09	1SDA067439R1	201.35
	XT1S160R63	630A	1SDA067432R1	166.15	1SDA067440R1	207.71
	XT1S160R80	800A	1SDA067433R1	166.15	1SDA067441R1	207.71
	XT1S160R100	1000A	1SDA067434R1	169.54	1SDA067442R1	211.94
	XT1S160R125	1250A	1SDA067435R1	228.88	1SDA067445R1	286.10
	XT1S160R160	1600A	1SDA067436R1	288.23	1SDA067446R1	360.29



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Power distribution circuit breakers

Tmax XT2 - N, S, H thermomagnetic



Ratings @ 400V

	Icu	Ics
XT2N	36kA	100%
XT2S	50kA	100%
XT2H	70kA	100%



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Fixed Pattern Circuit Breaker

Supplied as standard with front bar terminals for busbar - for other terminals see accessories section

Thermomagnetic TMA

Model	Current [A]		Product Hierarchy 3000004			
	Ith/In	I3	3 Pole	Price	4 Pole	Price
XT2N	160R32	320A	1SDA067013R1	202.48	1SDA067034R1	250.29
	160R40	400A	1SDA067014R1	202.48	1SDA067035R1	250.29
	160R50	500A	1SDA067015R1	202.48	1SDA067036R1	250.29
	160R63	630A	1SDA067016R1	202.48	1SDA067037R1	250.29
	160R80	800A	1SDA067017R1	202.48	1SDA067038R1	250.29
	160R100	1000A	1SDA067018R1	202.48	1SDA067039R1	250.29
	160R125	1250A	1SDA067019R1	204.76	1SDA067042R1	255.95
	160R160	1600A	1SDA067020R1	204.76	1SDA067043R1	255.95
XT2S	160R32	320A	1SDA067553R1	215.13	1SDA067574R1	266.12
	160R40	400A	1SDA067554R1	215.13	1SDA067575R1	266.12
	160R50	500A	1SDA067555R1	215.13	1SDA067576R1	266.12
	160R63	630A	1SDA067556R1	215.13	1SDA067577R1	266.12
	160R80	800A	1SDA067557R1	215.13	1SDA067578R1	266.12
	160R100	1000A	1SDA067558R1	215.13	1SDA067579R1	266.12
	160R125	1250A	1SDA067559R1	217.41	1SDA067582R1	271.77
	160R160	1600A	1SDA067560R1	217.41	1SDA067583R1	271.77
XT2H	160R32	320A	1SDA067597R1	245.71	1SDA067618R1	304.32
	160R40	400A	1SDA067598R1	245.71	1SDA067619R1	304.32
	160R50	500A	1SDA067599R1	245.71	1SDA067620R1	304.32
	160R63	630A	1SDA067600R1	245.71	1SDA067621R1	304.32
	160R80	800A	1SDA067601R1	245.71	1SDA067622R1	304.32
	160R100	1000A	1SDA067602R1	245.71	1SDA067623R1	304.32
	160R125	1250A	1SDA067603R1	248.01	1SDA067626R1	309.98
	160R160	1600A	1SDA067604R1	248.01	1SDA067627R1	309.98

3

Power distribution circuit breakers

Tmax XT2 - N, S, H electronic releases



Ratings @ 400V

	Icu	Ics
XT2N	36kA	100%
XT2S	50kA	100%
XT2H	70kA	100%



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Fixed Pattern Circuit Breaker

Supplied as standard with front bar terminals for busbar - for other terminals see accessories section

Electronic Release

3

Model	Type	In	Product Hierarchy 3000004			
			3 Pole	Price	4 Pole	Price
XT2N	160 Ekip LS/I	63A	1SDA067056R1	220.33	1SDA067092R1	275.41
	160 Ekip LS/I	100A	1SDA067057R1	220.33	1SDA067093R1	275.41
	160 Ekip LS/I	160A	1SDA067058R1	239.80	1SDA067095R1	299.75
XT2S	160 Ekip LS/I	63A	1SDA067802R1	232.16	1SDA067835R1	290.21
	160 Ekip LS/I	100A	1SDA067803R1	232.16	1SDA067836R1	290.21
	160 Ekip LS/I	160A	1SDA067804R1	251.62	1SDA067838R1	314.54
XT2H	160 Ekip LS/I	63A	1SDA067859R1	274.27	1SDA067892R1	342.83
	160 Ekip LS/I	100A	1SDA067860R1	274.27	1SDA067893R1	342.83
	160 Ekip LS/I	160A	1SDA067861R1	293.74	1SDA067895R1	367.16

Power distribution circuit breakers

Tmax XT3 - N, S thermomagnetic & magnetic only



Ratings @ 400V

	Icu	Ics
XT3N	36kA	75%
XT3S	50kA	50%



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Fixed Pattern Circuit Breaker

Supplied as standard with front bar terminals for busbar - for other terminals see accessories section

Thermomagnetic TMA

Model	Current [A]		Product Hierarchy 3000004			
	Ith/In	I3	3 Pole	Price	4 Pole	Price
XT3N	250R63	630A	1SDA068053R1	233.25	1SDA068060R1	291.56
	250R80	800A	1SDA068054R1	233.25	1SDA068061R1	291.56
	250R100	1000A	1SDA068055R1	233.25	1SDA068062R1	291.56
	250R125	1250A	1SDA068056R1	233.25	1SDA068067R1	291.56
	250R160	1600A	1SDA068057R1	277.80	1SDA068068R1	327.35
	250R200	2000A	1SDA068058R1	291.56	1SDA068069R1	364.45
	250R250	2500A	1SDA068059R1	388.74	1SDA068070R1	485.93
XT3S	250R63	630A	1SDA068215R1	267.27	1SDA068222R1	334.09
	250R80	800A	1SDA068216R1	267.27	1SDA068223R1	334.09
	250R100	1000A	1SDA068217R1	267.27	1SDA068224R1	334.09
	250R125	1250A	1SDA068221R1	445.46	1SDA068229R1	334.09
	250R160	1600A	1SDA068219R1	304.60	1SDA068230R1	360.87
	250R200	2000A	1SDA068220R1	334.09	1SDA068231R1	417.62
	250R250	2500A	1SDA068221R1	445.46	1SDA068232R1	556.84

3

Power distribution circuit breakers

Tmax XT4 - N, S, H thermomagnetic & magnetic only



Ratings @ 400V

	Icu	Ics
XT4N	36kA	100%
XT4S	50kA	100%
XT4H	70kA	100%



Full range of product and technical information place this part number in a search engine and download
1SDC210015D0204

Fixed Pattern Circuit Breaker

Supplied as standard with front bar terminals for busbar - for other terminals see accessories section

3

Thermomagnetic TMA Magnetic Only TMD

Model	Current [A]			Product Hierarchy 3000004				
	Ith/In	I3	%N	3 Pole	Price	4 Pole	Price	
XT4N TMD	160R20	300A	100	1SDA068080R1	226.79	1SDA068094R1	283.48	
	160R32	320A		1SDA068082R1	226.79	1SDA068096R1	283.48	
	160R50	500A		1SDA068084R1	226.79	1SDA068098R1	283.48	
	160R80	800A		1SDA068086R1	226.79	1SDA068100R1	283.48	
XT4N TMA	160R100	1000A		1SDA068087R1	226.79	1SDA068101R1	283.48	
	160R125	1250A		1SDA068088R1	226.79	1SDA068107R1	283.48	
	160R160	1600A		1SDA068089R1	226.79	1SDA068108R1	283.48	
	N250R200	2000A		1SDA068090R1	330.84	1SDA068109R1	413.57	
	N250R250	2500A		1SDA068092R1	330.84	1SDA068111R1	413.57	
	XT4S TMD	160R20		300A	1SDA068300R1	254.90	1SDA068314R1	318.62
		160R32		320A	1SDA068302R1	254.90	1SDA068316R1	318.62
		160R50		500A	1SDA068304R1	254.90	1SDA068318R1	318.62
160R80		800A	1SDA068306R1	254.90	1SDA068320R1	318.62		
XT4S TMA	160R100	1000A	1SDA068307R1	254.90	1SDA068321R1	318.62		
	160R125	1250A	1SDA068308R1	254.90	1SDA068327R1	318.62		
	160R160	1600A	1SDA068309R1	254.90	1SDA068328R1	318.62		
	250R200	2000A	1SDA068310R1	404.97	1SDA068329R1	506.20		
	250R250	2500A	1SDA068312R1	404.97	1SDA068331R1	506.20		
	XT4H TMD	160R20	300A	1SDA068333R1	309.25	1SDA068347R1	386.59	
		160R32	320A	1SDA068335R1	309.25	1SDA068349R1	386.59	
		160R50	500A	1SDA068337R1	309.25	1SDA068351R1	386.59	
160R80		800A	1SDA068339R1	309.25	1SDA068353R1	386.59		
XT4H TMA	160R100	1000A	1SDA068340R1	309.25	1SDA068354R1	386.59		
	160R125	1250A	1SDA068341R1	309.25	1SDA068360R1	386.59		
	160R160	1600A	1SDA068342R1	309.25	1SDA068361R1	386.59		
	250R200	2000A	1SDA068343R1	475.03	1SDA068362R1	593.79		
	250R250	2500A	1SDA068345R1	475.03	1SDA068364R1	593.79		

Power distribution circuit breakers

Tmax XT4 - N, S, H electronic releases



Ratings @ 400V

	Icu	Ics
XT4N	36kA	100%
XT4S	50kA	100%
XT4H	70kA	100%



Full range of product and technical information place this part number in a search engine and download
1SDC210015D0204

Fixed Pattern Circuit Breaker

Supplied as standard with front bar terminals for busbar - for other terminals see accessories section

Electronic Release

Model	Type	In	Product Hierarchy 300004			
			3 Pole		4 Pole	
				Price		Price
XT4N LS/I	160 Ekip LS/I	40A	1SDA068122R1	278.97	1SDA068142R1	348.70
	160 Ekip LS/I	63A	1SDA068123R1	278.97	1SDA068144R1	348.70
	160 Ekip LS/I	100A	1SDA068124R1	278.97	1SDA068145R1	348.70
	160 Ekip LS/I	160A	1SDA068125R1	278.97	1SDA068146R1	348.70
	250 Ekip LS/I	250A	1SDA068126R1	445.01	1SDA068147R1	556.26
T4N	320 PR221DS-LS	320A	1SDA054117R1	507.06	1SDA054121R1	667.62
XT4N LSI	160 Ekip LSI	40A	1SDA068132R1	526.99	1SDA068153R1	658.73
	160 Ekip LSI	63A	1SDA068133R1	526.99	1SDA068154R1	658.73
	160 Ekip LSI	100A	1SDA068134R1	526.99	1SDA068155R1	658.73
	160 Ekip LSI	160A	1SDA068135R1	526.99	1SDA068156R1	658.73
	250 Ekip LSI	250A	1SDA068136R1	693.04	1SDA068157R1	866.29
T4N	320 PR221DS-LSI	320A	1SDA054119R1	663.10	1SDA054123R1	823.65
XT4S LS/I	160 Ekip LS/I	40A	1SDA068471R1	344.39	1SDA068491R1	430.48
	160 Ekip LS/I	63A	1SDA068472R1	344.39	1SDA068492R1	430.48
	160 Ekip LS/I	100A	1SDA068473R1	344.39	1SDA068493R1	430.48
	160 Ekip LS/I	160A	1SDA068474R1	344.39	1SDA068494R1	430.48
	160 Ekip LS/I	250A	1SDA068475R1	477.78	1SDA068495R1	597.23
T4S	320 PR221DS-LS	320A	1SDA054125R1	557.76	1SDA054129R1	736.15
XT4S LSI	160 Ekip LSI	40A	1SDA068481R1	592.40	1SDA068501R1	740.50
	160 Ekip LSI	63A	1SDA068482R1	592.40	1SDA068502R1	740.50
	160 Ekip LSI	100A	1SDA068483R1	592.40	1SDA068503R1	740.50
	160 Ekip LSI	160A	1SDA068484R1	592.40	1SDA068504R1	740.50
	160 Ekip LSI	250A	1SDA068485R1	725.80	1SDA068505R1	907.25
T4S	320 PR221DS-LSI	320A	1SDA054127R1	713.81	1SDA054131R1	892.23
XT4H LS/I	160 Ekip LS/I	40A	1SDA068511R1	419.55	1SDA068531R1	524.44
	160 Ekip LS/I	63A	1SDA068512R1	419.55	1SDA068532R1	524.44
	160 Ekip LS/I	100A	1SDA068513R1	419.55	1SDA068533R1	524.44
	160 Ekip LS/I	160A	1SDA068514R1	419.55	1SDA068534R1	524.44
	250 Ekip LS/I	250A	1SDA068515R1	551.89	1SDA068535R1	689.86
T4H	320 PR221DS-LS/I	320A	1SDA054133R1	593.52	1SDA054137R1	772.04
XT4H LSI	160 Ekip LSI	40A	1SDA068521R1	667.57	1SDA068541R1	834.45
	160 Ekip LSI	63A	1SDA068522R1	667.57	1SDA068542R1	834.45
	160 Ekip LSI	100A	1SDA068523R1	667.57	1SDA068543R1	834.45
	160 Ekip LSI	160A	1SDA068524R1	667.57	1SDA068544R1	834.45
	250 Ekip LSI	250A	1SDA068525R1	799.90	1SDA068545R1	999.88
T4H	320 PR222DS-LSI	320A	1SDA054135R1	749.59	1SDA054139R1	928.08

Power distribution circuit breakers

Tmax T5 - N, S, H thermomagnetic



Ratings @ 400V

	Icu	Ics
T5N	36kA	100%
T5S	50kA	100%
T5H	70kA	100%



Full range of product and technical information place this part number in a search engine and download
1SDC210015D0204

Fixed Pattern Circuit Breaker

Supplied as standard with front bar terminals for busbar - for other terminals see accessories section

Thermomagnetic TMA

3

Model	Current [A]			Product Hierarchy 3000004			
	Ith/In	I3	%N	3 Pole	Price	4 Pole	Price
T5N TMA	400R320	3200A	100	1SDA054436R1	528.29	1SDA054477R1	701.59
	400R400	4000A		1SDA054437R1	528.29	1SDA054478R1	701.62
	630R500	5000A		1SDA054456R1	777.75	1SDA054487R1	1005.19
T5S TMA	400R320	3200A	100	1SDA054440R1	581.09	1SDA054479R1	771.77
	400R400	4000A		1SDA054441R1	581.11	1SDA054480R1	771.78
	630R500	5000A		1SDA054461R1	855.54	1SDA054489R1	1105.72
T5H TMA	400R320	3200A	100	1SDA054444R1	624.37	1SDA054481R1	817.64
	400R400	4000A		1SDA054445R1	624.37	1SDA054482R1	817.65
	630R500	5000A		1SDA054465R1	955.40	1SDA054491R1	1206.21

Power distribution circuit breakers

Tmax T5 - N, S, H electronic releases



Ratings @ 400V

	Icu	Ics
T5N	50kA	100%
T5S	50kA	100%
T5H	70kA	100%



Full range of product and technical information place this part number in a search engine and download
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Fixed Pattern Circuit Breaker

Supplied as standard with front bar terminals for busbar - for other terminals see accessories section

Electronic Release

Model	Type	In	Product Hierarchy 3000004			
			3 Pole		4 Pole	
				Price		Price
T5N LS/I	400 PR221DS-LS/I	320A	1SDA054316R1	562.10	1SDA054324R1	733.61
	400 PR221DS-LS/I	400A	1SDA054317R1	562.09	1SDA054325R1	748.29
	630 PR221DS-LS/I	630A	1SDA054396R1	895.26	1SDA054400R1	1173.17
T5N LSI	400 PR222DS/P-LSI	320A	1SDA054320R1	718.13	1SDA054328R1	904.34
	400 PR222DS/P-LSI	400A	1SDA054321R1	718.13	1SDA054329R1	904.35
	630 PR222DS/P-LSI	630A	1SDA054398R1	1051.30	1SDA054402R1	1329.21
T5S LS/I	400 PR221DS-LS/I	320A	1SDA054332R1	618.29	1SDA054340R1	823.11
	400 PR221DS-LS/I	400A	1SDA054333R1	618.29	1SDA054333R1	618.29
	630 PR221DS-LS/I	630A	1SDA054404R1	984.80	1SDA054408R1	1290.50
T5S LSI	400 PR222DS/P-LSI	320A	1SDA054336R1	774.33	1SDA054344R1	979.16
	400 PR222DS/P-LSI	400A	1SDA054337R1	774.33	1SDA054345R1	979.14
	630 PR222DS/P-LSI	630A	1SDA054406R1	1140.83	1SDA054410R1	1446.56
T5H LS/I	400 PR221DS-LS/I	320A	1SDA054348R1	627.12	1SDA054356R1	815.05
	400 PR221DS-LS/I	400A	1SDA054349R1	627.12	1SDA054357R1	815.05
	630 PR221DS-LS/I	630A	1SDA054412R1	998.46	1SDA054416R1	1258.07
T5H LSI	400 PR222DS/P-LSI	320A	1SDA054352R1	783.16	1SDA054360R1	971.09
	400 PR222DS/P-LSI	400A	1SDA054353R1	783.15	1SDA054361R1	971.09
	630 PR222DS/P-LSI	630A	1SDA054414R1	1154.52	1SDA054418R1	1414.13

3

Power distribution circuit breakers

Tmax T6 - N, S, H, L thermomagnetic



Ratings @ 400V

	Icu	Ics
T6N	36kA	100%
T6S	50kA	100%
T6H	70kA	100%



Full range of product and technical information place this part number in a search engine and download
1SDC210015D0204

Fixed Pattern Circuit Breaker

Supplied as standard with front bar terminals for busbar - for other terminals see accessories section

Thermomagnetic TMA

3

Model	Current [A]			Product Hierarchy 3000004			
	Ith/In	I3	%N	3 Pole		4 Pole	
					Price		Price
T6N TMA	630R630	6300A	100	1SDA060202R1	807.22	1SDA060210R1	1042.81
	800R800	8000A		1SDA060214R1	1040.74	1SDA060222R1	1327.07
T6S TMA	630R630	6300A	100	1SDA060204R1	914.19	1SDA060211R1	1175.52
	800R800	8000A		1SDA060216R1	1090.78	1SDA060223R1	1459.41
T6H TMA	630R630	6300A	100	1SDA060206R1	1005.26	1SDA060212R1	1288.64
	800R800	8000A		1SDA060218R1	1245.62	1SDA060224R1	1647.53

Power distribution circuit breakers

Tmax T6 - N, S, H electronic release



Ratings @ 400V

	Icu	Ics
T6N	36kA	100%
T6S	50kA	100%
T6H	70kA	100%



Full range of product and technical information place this part number in a search engine and download
1SDC210015D0204

Fixed Pattern Circuit Breaker

Supplied as standard with front bar terminals for busbar - for other terminals see accessories section

Electronic Release

Model	Type	In	Product Hierarchy 3000004			
			3 Pole		4 Pole	
				Price		Price
T6N	630 PR221DS-LS/I	630A	1SDA060226R1	847.95	1SDA060231R1	1088.65
LS/I	800 PR221DS-LS/I	800A	1SDA060268R1	1082.49	1SDA060273R1	1373.89
T6N	630 PR222DS/P-LSI	630A	1SDA060228R1	1040.86	1SDA060233R1	1281.56
P-LSI	800 PR222DS/P-LSI	800A	1SDA060270R1	1275.40	1SDA060275R1	1566.83
T6S	630 PR221DS-LS/I	630A	1SDA060236R1	954.94	1SDA060243R1	1414.26
LS/I	800 PR221DS-LS/I	800A	1SDA060278R1	1132.54	1SDA060285R1	1614.48
T6S	630 PR222DS/P-LSI	630A	1SDA060238R1	1147.85	1SDA060243R1	1414.26
P-LSI	800 PR222DS/P-LSI	800A	1SDA060280R1	1325.45	1SDA060285R1	1614.48
T6H	630 PR221DS-LS/I	630A	1SDA060246R1	1046.00	1SDA060251R1	1334.47
LS/I	800 PR221DS-LS/I	800A	1SDA060289R1	1287.38	1SDA060294R1	1694.37
T6H	630 PR222DS/P-LSI	630A	1SDA060248R1	1238.93	1SDA060253R1	1527.39
P-LSI	800 PR222DS/P-LSI	800A	1SDA060291R1	1480.30	1SDA060296R1	1887.29

3

Power distribution circuit breakers

Tmax T7 - S electronic release



Ratings @ 400V

	Icu	Ics
T7S	50kA	100%



Full range of product and technical information place this part number in a search engine and download

1SDC210015D0204

Fixed Pattern Circuit Breaker

Supplied as standard with front bar terminals for busbar - for other terminals see accessories section

Electronic Release

3

Model	Current [A]	In	Product Hierarchy 3000004			
Toggle Operated			3 Pole		4 Pole	
				Price		Price
T7S P-LS/I	800 PR231/P-LS/I	800A	1SDA061963R1	1192.57	1SDA061973R1	1427.46
	1000 PR231/P-LS/I	1000A	1SDA062738R1	1346.59	1SDA062746R1	1724.09
	1250 PR231/P-LS/I	1250A	1SDA062866R1	1641.34	1SDA062874R1	2043.17
	1600 PR231/P-LS/I	1600A	1SDA062994R1	2313.03	1SDA063002R1	2726.43
T7S P-LSI	800 PR232/P-LSI	800A	1SDA061964R1	1401.43	1SDA061974R1	1636.34
	1000 PR232/P-LSI	1000A	1SDA062739R1	1555.99	1SDA062747R1	1932.92
	1250 PR232/P-LSI	1250A	1SDA062867R1	1850.17	1SDA062867R1	1850.17
	1600 PR232/P-LSI	1600A	1SDA062995R1	2521.89	1SDA062995R1	2521.89
T7S P-LSIG	800 PR331/P-LSIG	800A	1SDA061965R1	1541.71	1SDA061975R1	1776.59
	1000 PR331/P-LSIG	1000A	1SDA062740R1	1696.24	1SDA062748R1	2073.20
	1250 PR331/P-LSIG	1250A	1SDA062868R1	1990.44	1SDA062876R1	2439.56
	1600 PR331/P-LSIG	1600A	1SDA062996R1	2662.15	1SDA063004R1	3075.55
	800 PR332/P-LSIG	800A	1SDA061968R1	1757.45	1SDA061978R1	1992.36
	1000 PR332/P-LSIG	1000A	1SDA062743R1	1912.02	1SDA062751R1	2288.97
	1250 PR332/P-LSIG	1250A	1SDA062871R1	2206.22	1SDA062879R1	2608.07
	1600 PR332/P-LSIG	1600A	1SDA062999R1	2877.92	1SDA063007R1	3291.31
Pushbutton Operated						
T7S P-LS/I	800 PR231/P-LS/I	800A	1SDA061981R1	1311.85	1SDA061989R1	1570.21
	1000 PR231/P-LS/I	1000A	1SDA062754R1	1481.85	1SDA062762R1	1896.50
	1250 PR231/P-LS/I	1250A	1SDA062882R1	1805.45	1SDA062890R1	2247.49
	1600 PR231/P-LS/I	1600A	1SDA063010R1	2544.34	1SDA063018R1	2999.06
T7S P-LSI	800 PR232/P-LSI	800A	1SDA061982R1	1541.57	1SDA061990R1	1799.96
	1000 PR232/P-LSI	1000A	1SDA062755R1	1711.58	1SDA062763R1	2126.23
	1250 PR232/P-LSI	1250A	1SDA062883R1	2035.20	1SDA062891R1	2477.24
	1600 PR232/P-LSI	1600A	1SDA063011R1	2774.08	1SDA063019R1	3228.82
T7S P-LSIG	800 PR331/P-LSIG	800A	1SDA061983R1	1695.87	1SDA061991R1	1954.26
	1000 PR331/P-LSIG	1000A	1SDA062756R1	1865.87	1SDA062764R1	2280.52
	1250 PR331/P-LSIG	1250A	1SDA062884R1	2189.49	1SDA062892R1	2631.51
	1600 PR331/P-LSIG	1600A	1SDA063020R1	3383.09	1SDA063019R1	3228.82
	800 PR332/P-LSIG	800A	1SDA061986R1	1933.22	1SDA061994R1	2191.59
	1000 PR332/P-LSIG	1000A	1SDA062759R1	2103.22	1SDA062767R1	2517.85
	1250 PR332/P-LSIG	1250A	1SDA062887R1	2426.83	1SDA062895R1	2868.87
	1600 PR332/P-LSIG	1600A	1SDA063015R1	3165.71	1SDA063023R1	3620.46

Power distribution circuit breakers

Tmax T7 - H electronic release



Ratings @ 400V

	Icu	Ics
T7H	70kA	100%



Full range of product and technical information place this part number in a search engine and download

1SDC210015D0204

Fixed Pattern Circuit Breaker

Supplied as standard with front bar terminals for busbar - for other terminals see accessories section

Electronic Release

Model	Current [A]	In	Product Hierarchy 300004					
Toggle Operated			3 Pole		Price	4 Pole		Price
T7H P-LS/I	800 PR231/P-LS/I	800A	1SDA062642R1		1362.85	1SDA062650R1		1695.89
	1000 PR231/P-LS/I	1000A	1SDA062770R1		1704.19	1SDA062778R1		1861.82
	1250 PR231/P-LS/I	1250A	1SDA062898R1		2027.17	1SDA062906R1		2373.39
	1600 PR231/P-LS/I	1600A	1SDA063026R1		2826.96	1SDA063034R1		3232.66
T7H P-LSI	800 PR232/P-LSI	800A	1SDA062643R1		1571.70	1SDA062651R1		1904.74
	1000 PR232/P-LSI	1000A	1SDA062771R1		1913.05	1SDA062779R1		2070.65
	1250 PR232/P-LSI	1250A	1SDA062899R1		2236.01	1SDA062907R1		2582.23
	1600 PR232/P-LSI	1600A	1SDA063027R1		3035.81	1SDA063035R1		3441.53
T7H P-LSIG	800 PR331/P-LSIG	800A	1SDA062644R1		1711.99	1SDA062652R1		2045.00
	1000 PR331/P-LSIG	1000A	1SDA062772R1		2053.30	1SDA062780R1		2210.90
	1250 PR331/P-LSIG	1250A	1SDA062900R1		2376.29	1SDA062908R1		2722.49
	1600 PR331/P-LSIG	1600A	1SDA063028R1		3176.07	1SDA063036R1		3581.78
T7H P-LSIG	800 PR332/P-LSIG	800A	1SDA062647R1		1927.74	1SDA062655R1		2260.76
	1000 PR332/P-LSIG	1000A	1SDA062775R1		2269.07	1SDA062873R1		2043.19
	1250 PR332/P-LSIG	1250A	1SDA062903R1		2592.04	1SDA062911R1		2938.27
	1600 PR332/P-LSIG	1600A	1SDA063031R1		3391.85	1SDA063039R1		3797.56
Pushbutton Operated								
T7H P-LS/I	800 PR231/P-LS/I	800A	1SDA062658R1		1499.15	1SDA062666R1		1865.48
	1000 PR231/P-LS/I	1000A	1SDA062786R1		1874.60	1SDA062794R1		2047.98
	1250 PR231/P-LS/I	1250A	1SDA062914R1		2229.90	1SDA062922R1		2610.72
	1600 PR231/P-LS/I	1600A	1SDA063042R1		3109.66	1SDA063050R1		3555.93
T7H P-LSI	800 PR232/P-LSI	800A	1SDA062659R1		1728.89	1SDA062667R1		2095.22
	1000 PR232/P-LSI	1000A	1SDA062787R1		2104.35	1SDA062795R1		2277.71
	1250 PR232/P-LSI	1250A	1SDA062915R1		2459.61	1SDA062923R1		2840.45
	1600 PR232/P-LSI	1600A	1SDA063043R1		3339.39	1SDA063051R1		3785.67
T7H P-LSIG	800 PR331/P-LSIG	800A	1SDA062660R1		1883.17	1SDA062668R1		2249.50
	1000 PR331/P-LSIG	1000A	1SDA062788R1		2258.62	1SDA062796R1		2432.02
	1250 PR331/P-LSIG	1250A	1SDA062916R1		2613.89	1SDA062924R1		2994.75
	1600 PR331/P-LSIG	1600A	1SDA063044R1		3493.69	1SDA063052R1		3939.97
T7H P-LSIG	800 PR332/P-LSIG	800A	1SDA062663R1		2120.51	1SDA062671R1		2486.85
	1000 PR332/P-LSIG	1000A	1SDA062791R1		2495.98	1SDA062799R1		2669.36
	1250 PR332/P-LSIG	1250A	1SDA062919R1		2851.25	1SDA062927R1		3232.08
	1600 PR332/P-LSIG	1600A	1SDA063047R1		3731.01	1SDA063055R1		4177.32

Power distribution circuit breakers

Tmax switch disconnectors



Full range of product and technical information place this part number in a search engine and download
1SDC210015D0204

Fixed Pattern Circuit Breaker

Supplied as standard with front bar terminals for busbar - for other terminals see accessories section

3

Non Automatic

Product Hierarchy 3000004

ICW	Model	Current [A] lu	3 Pole	Price	4 Pole	Price
2kA	XT1D 160 F F	160	1SDA068208R1	183.76	1SDA068209R1	229.69
	XT3D 250 F F	250	1SDA068210R1	240.51	1SDA068211R1	300.63
3.6kA	XT4D 250 F F	250	1SDA068212R1	240.51	1SDA068213R1	300.63
	T5D 400 F F	400	1SDA054599R1	481.31	1SDA054600R1	686.82
6kA	T5D 630 F F	630	1SDA054601R1	686.82	1SDA054602R1	957.33
	T6D 630 F F	630	1SDA060343R1	655.11	1SDA060344R1	776.00
15kA	T6D 800 F F	1000	1SDA060345R1	1015.26	1SDA060346R1	1216.40
	T6D 1000 F F	1250	1SDA060594R1	1069.88	1SDA060595R1	1235.76

Toggle Operated

25kA	T7D 1000 F F	1000	1SDA062032R1	1137.23	1SDA062033R1	1328.13
	T7D 1250 F F	1250	1SDA062036R1	1208.21	1SDA062037R1	1498.30
	T7D 1600 F F	1600	1SDA062040R1	1415.35	1SDA062041R1	1838.99

Pushbutton Operated

25kA	T7D 1000 M F F	1000	1SDA062034R1	1250.96	1SDA062035R1	1460.94
	T7D 1250 M F F	1250	1SDA062038R1	1329.04	1SDA062039R1	1730.53
	T7D 1600 M F F	1600	1SDA062042R1	1556.88	1SDA062043R1	2022.91

Power distribution circuit breakers Accessories

3





Starting from the fixed version circuit-breaker, all the other versions used for various requirements are obtained by means of mounting conversion kits.

3

The following are available:

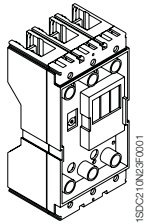
- Kit for converting a fixed circuit-breaker into the moving part of a plug-in
- Circuit-breaker fixed parts for plug-in circuit-breakers
- Conversion kit for the connection terminals

Various accessories are also available:

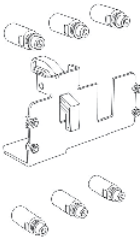
- Shunt opening releases
- Undervoltage releases
- Auxiliary contacts
- Position contacts
- Advanced contacts on rotary handle
- Front and rear connection terminals
- Bracket for rear fixing on DIN EN 50022 rail
- Front interlocking plate
- Solenoid operating mechanism
- Rotary handle operating mechanism - direct on circuit-breaker and transmitted on compartment door
- Three-pole and four-pole residual current releases

Power distribution circuit breakers

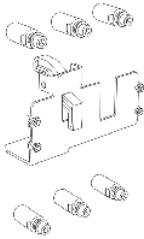
Tmax XT1 ... XT4 & T1 ... T7 accessories



1SDA068183R1



3



Plug-in (P) - Fixed Part

Product Hierarchy 3000006

	3 pole		4 pole	
	Order Code	Price	Order Code	Price
F = Front terminals	3 pole		4 pole	
XT1 (max In=125A)	1SDA068183R1	94.11	1SDA068185R1	125.16
XT2	1SDA068187R1	99.07	1SDA051330R1	70.92
XT3	1SDA068192R1	106.77	1SDA051332R1	112.55
XT4	1SDA068196R1	110.07	1SDA054740R1	135.80
T5 400	1SDA054749R1	210.39	1SDA054752R1	273.51
T5 630 circuit breaker in plug-in version In max = 570A	1SDA054762R1	224.22	1SDA054765R1	291.46

	3 pole		4 pole	
	Order Code	Price	Order Code	Price
HR = Rear flat horizontal terminals	3 pole		4 pole	
T4	1SDA054739R1	128.58	1SDA054742R1	169.56
T5	1SDA054751R1	274.11	1SDA054754R1	356.36
T5 630 circuit breaker in plug-in version In max = 570A	1SDA054764R1	282.60	1SDA054767R1	367.38

	3 pole		4 pole	
	Order Code	Price	Order Code	Price
VR = Rear flat vertical terminals	3 pole		4 pole	
T4	1SDA054738R1	128.59	1SDA054741R1	169.56
T5	1SDA054750R1	274.12	1SDA054753R1	356.36
T5 630 circuit breaker in plug-in version In max = 570A	1SDA054763R1	282.60	1SDA054766R1	367.39

Withdrawable (W) - Fixed Part

Product Hierarchy 3000006

	3 pole		4 pole	
	Order Code	Price	Order Code	Price
F = Front terminals	3 pole		4 pole	
XT2	1SDA068200R1	210.18	1SDA068202R1	279.54
T4	1SDA054743R1	180.35	1SDA054746R1	229.85
T5 400	1SDA054755R1	214.14	1SDA054758R1	401.22
T5 630 circuit breaker in plug-in version In max = 570A	1SDA054768R1	251.93	1SDA054771R1	327.51
T6	1SDA060384R1	305.95	1SDA060387R1	397.70
T7 - X1	1SDA062045R1	667.38	1SDA062049R1	867.61

	3 pole		4 pole	
	Order Code	Price	Order Code	Price
HR = Rear flat horizontal terminals	3 pole		4 pole	
T4	1SDA054745R1	214.23	1SDA054748R1	278.51
T5 400	1SDA054757R1	278.39	1SDA054761R1	393.37
T5 630 circuit breaker in plug-in version In max = 570A	1SDA054770R1	327.50	1SDA054774R1	491.70
T6	1SDA060385R1	426.51	1SDA060388R1	554.44

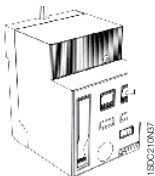
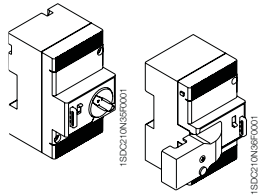
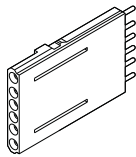
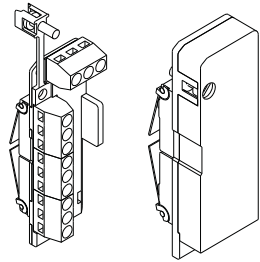
	3 pole		4 pole	
	Order Code	Price	Order Code	Price
VR = Rear flat horizontal terminals	3 pole		4 pole	
T4	1SDA054744R1	214.22	1SDA054747R1	278.49
T5 400	1SDA054756R1	278.38	1SDA054759R1	393.37
T5 630 circuit breaker in plug-in version In max = 570A	1SDA054769R1	327.50	1SDA054772R1	491.70
T6	1SDA060386R1	426.52	1SDA060389R1	554.44

	3 pole		4 pole	
	Order Code	Price	Order Code	Price
HR/V = Rear flat terminals	3 pole		4 pole	
T7 - X1	1SDA062044R1	786.33	1SDA066276R1	58.29

Note: Fixed parts on T7 - T7M circuit breakers with **** terminals are supplied as standard with terminals mounted in horizontal. To order the terminals mounted vertically, use the extra code 1SDA063521R1

Power distribution circuit breakers

Tmax XT1 ... XT4 & T1 ... T7 accessories



Product Hierarchy 300006

Conversion of Version

Order Code	Price	Order Code	Price
3 pole		4 pole	

Conversion kit from fixed to moving part of plug-in part of plug-in

Kit P MP XT1 (max In=125A)	1SDA066276R1	58.29	1SDA066277R1	84.79
Kit P MP XT2	1SDA066278R1	24.64	1SDA066279R1	32.78
Kit P MP XT3	1SDA066280R1	18.84	1SDA066281R1	25.05
Kit P MP XT4	1SDA066282R1	26.50	1SDA066283R1	35.24
Kit MP T5 400 P	1SDA054843R1	61.22	1SDA054844R1	79.62
Kit MP T5 630 P (max In=570A)	1SDA054847R1	87.47	1SDA054848R1	113.72

Conversion kit from fixed to moving part of withdrawable

Kit MP XT2 160 W	1SDA066284R1	32.96	1SDA066285R1	43.85
Kit MP XT4 250 W	1SDA066286R1	36.62	1SDA066287R1	48.71
Kit MP T5 400 W	1SDA054845R1	80.53	1SDA054846R1	105.53
Kit MP T5 630 W (max In=570A)	1SDA054849R1	102.68	1SDA054850R1	120.30
Kit MP T6 630/800 W	1SDA060390R1	105.90	1SDA060391R1	137.68
Kit MP T7-T7M-X1 W	1SDA062162R1	162.50	1SDA062163R1	211.26

Sliding Contacts T7-T7M

Left Sliding Contact MP	1SDA062164R1	15.42
Central Sliding Contact MP	1SDA062165R1	16.98
Right Sliding Contact MP	1SDA062166R1	15.42
Left Sliding Contact FP	1SDA062167R1	48.66
Central Sliding Contact FP	1SDA062168R1	53.51
Right Sliding Contact FP	1SDA062169R1	48.66

Note: Always to be ordered in pairs (block for MP & block for FP) if the circuit breaker is automatic or fitted with electrical accessories withdrawable version. For more information, please contact us.

The sliding contact blocks are needed for T7 in the withdrawable version fitted with electrical accessories or with an electronic release. Their function is to make the electrical connection of the secondary circuits between the moving and fixed part. These blocks operate in pairs: one block must be mounted on the moving part and the other on the fixed part. The following table shows the possible combinations between sliding contact blocks and electrical accessories.

Left hand lock	Central lock	Right hand lock
Spring charger motor	PR331	Auxiliary contacts
"Closed springs charged" contact	PR332	Shunt opening release
"Ready to close" contact		Shunt closing release
Release trip signalling		Under voltage release

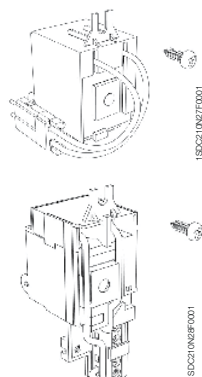
Terminal Covers for Fixed Part

TC-FP T4 4p Terminal Covers Fixed/P	1SDA054858R1	19.07
TC-FP T5 400/630 4p Terminal Covers Fixed/P	1SDA054861R1	24.33

Power distribution circuit breakers

Tmax XT1 ... XT4 & T1 ... T7 accessories

3



Services releases

Shunt opening release - SOR

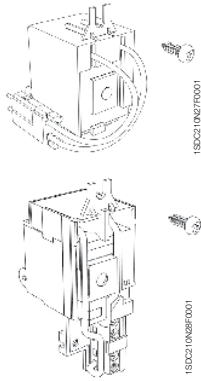
	Product Hierarchy 3000006	
	Order Code	Price
SOR-C XT1..XT4 F/P 12 Vdc	1SDA066321R1	52.61
SOR-C XT2-XT4 W 12 Vdc	1SDA066328R1	55.56
SOR-C XT1..XT4 F/P 24-30 Vac/dc	1SDA066322R1	52.61
SOR-C XT2-XT4 W 24-30 Vac/dc	1SDA066329R1	55.56
SOR-C XT1..XT4 F/P 48-60 Vac/dc	1SDA066323R1	52.61
SOR-C XT2-XT4 W 48-60 Vac/dc	1SDA066330R1	55.56
SOR-C XT1..XT4 F/P 110-127Vac-110-125Vdc	1SDA066324R1	52.61
SOR-C XT2-XT4 W 110-127Vac-110-125Vdc	1SDA066331R1	55.56
SOR-C XT1..XT4 F/P 220-240Vac-220-250Vdc	1SDA066325R1	52.61
SOR-C XT2-XT4 W 220-240Vac-220-250Vdc	1SDA066332R1	55.56
SOR-C XT1..XT4 F/P 380-440 Vac	1SDA066326R1	52.61
SOR-C XT2-XT4 W 380-440 Vac	1SDA066333R1	55.56
SOR-C XT1..XT4 F/P 480-525 Vac	1SDA066327R1	52.61
SOR-C XT2-XT4 W 480-525 Vac	1SDA066334R1	55.56
SOR-C T4-T5-T6 12 Vdc	1SDA054869R1	53.55
SOR-C T4-T5-T6 48...60 Vac/dc	1SDA054871R1	53.55
SOR-C T4-T5-T6 110..127Vac - 110..1	1SDA054872R1	53.55
SOR-C T4-T5-T6 220..240Vac - 220..2	1SDA054873R1	53.55
SOR-C T4-T5-T6 380...440 Vac	1SDA054874R1	53.55
SOR-CT4-T5-T6 480...500Vac	1SDA054875R1	53.55

Shunt opening/closing release - SOR/SCR

SOR/SCR T7-T7M-X1 24Va.c./d.c.	1SDA062065R1	66.31
SOR/SCR T7-T7M-X1 30Va.c./d.c.	1SDA062066R1	66.31
SOR/SCR T7-T7M-X1 48Va.c./d.c.	1SDA062067R1	66.31
SOR/SCR T7-T7M-X1 60Va.c./d.c.	1SDA062068R1	66.31
SOR/SCR T7-T7M-X1 110...120Va.c./d.c.	1SDA062069R1	66.31
SOR/SCR T7-T7M-X1 240...250Va.c./d.c.	1SDA062070R1	66.31
SOR/SCR T7-T7M-X1 380...400Va.c.	1SDA062071R1	66.31
SOR/SCR T7-T7M-X1 415...440Va.c.	1SDA062072R1	66.31

Power distribution circuit breakers

Tmax XT1 ... XT4 & T1 ... T7 accessories



Services releases

Undervoltage release - UVR

	Product Hierarchy 3000006	
	Order Code	Price
UVR-C XT2-XT4 W 24-30 V ac/dc	1SDA066403R1	76.01
UVR-C XT1...XT4 F/P 48 V ac/dc	1SDA069065R1	73.08
UVR-C XT2-XT4 W 48 V ac/dc	1SDA069066R1	76.01
UVR-C XT1...XT4 F/P 60 V ac/dc	1SDA066397R1	73.08
UVR-C XT2-XT4 W 60 V ac/dc	1SDA066404R1	76.01
UVR-C XT1...XT4 F/P 110-127V ac-110-125Vdc	1SDA066398R1	73.08
UVR-C XT2-XT4 W 110-127V ac-110-125Vdc	1SDA066405R1	76.01
UVR-C XT1...XT4 F/P 220-240V ac-220-250Vdc	1SDA066399R1	73.08
UVR-C XT2-XT4 W 220-240V ac-220-250Vdc	1SDA066406R1	76.01
UVR-C XT1...XT4 F/P 380-440 V ac	1SDA066400R1	73.08
UVR-C XT2-XT4 W 380-440 V ac	1SDA066407R1	76.01
UVR-C XT1...XT4 F/P 480-525 V ac	1SDA066401R1	73.08
UVR-C XT2-XT4 W 480-525 V ac	1SDA066408R1	76.01
UVR-C T4-T5-T6 24-30 V ac/dc	1SDA054887R1	75.69
UVR-C T4-T5-T6 48 V ac/dc	1SDA054888R1	75.69
UVR-CT4-T5-T6 60V ac/dc	1SDA054889R1	75.71
UVR-C T4-T5-T6 110-127V ac-110-125Vdc	1SDA054890R1	75.69
UVR-C T4-T5-T6 220-250 V ac/dc	1SDA054891R1	75.69
UVR-C T4-T5-T6 380-440 V ac	1SDA054892R1	75.69
UVR-C T4-T5-T6 480-500V ac	1SDA054893R1	75.71
UVR T7-T7M-X1 24Va.c./d.c.	1SDA062087R1	110.51
UVR T7-T7M-X130Va.c./d.c.	1SDA062088R1	110.52
UVR T7-T7M-X148Va.c./d.c.	1SDA062089R1	110.52
UVRT7-T7M-X160Va.c./d.c.	1SDA062090R1	110.52
UVR T7-T7M-X1 110...120Va.c./d.c.	1SDA062091R1	110.51
UVR T7-T7M-X1 240...250Va.c./d.c.	1SDA062092R1	110.51
UVR T7-T7M-X1 380...400Va.c.	1SDA062093R1	110.51
UVRT7-T7M-X1415...440Va.c.	1SDA062094R1	110.52

Time delayed UVR

UVD T1...T6 24...30Va.c./d.c.	1SDA051357R1	196.79
UVD T1...T6 48...60Va.c./d.c.	1SDA051358R1	196.78
UVD T1...T6 110...125Va.c./d.c.	1SDA051360R1	196.79
UVD T1...T6 220...250Va.c./d.c.	1SDA051361R1	196.79

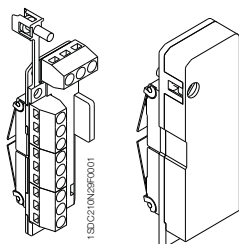
Electronic Time Delay for UVR

24/30V E1/6-T7-X1-T8	1SDA038316R1	180.33
48V E1/6-T7-X1-T8	1SDA038317R1	180.33
60V E1/6-T7-X1-T8	1SDA038318R1	POA
110-127V E1/6-T7-X1-T8	1SDA038319R1	180.33
220-250V E1/6-T7-X1-T8	1SDA038320R1	180.33

3

Power distribution circuit breakers

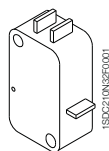
Tmax XT1 ... XT4 & T1 ... T7 accessories



Electrical Signals

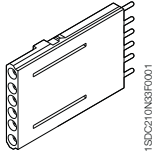
Product Hierarchy 3000006

Auxiliary contact - AUX	Order Code	Price
AUX-C 1Q+1SY 250 V XT1...XT4 F/P	1SDA066431R1	31.67
AUX-C 3Q+1SY 250 V XT2...XT4 F/P	1SDA066434R1	63.35
AUX-C 3Q+1SY 24 Vdc XT2...XT4 F/P	1SDA066448R1	63.35
AUX-C T4-T5-T6 1Q 1SY 250 Vac/dc	1SDA054910R1	32.16
AUX-C T4-T5-T6 3Q 1SY 250 Vac/dc	1SDA054911R1	64.29
AUX-C T4-T5-T6 1Q 1SY 400 Vac	1SDA054912R1	32.16
AUX-C T4-T5-T6 2Q 400 Vac	1SDA054913R1	32.16
AUX-C T4-T5-T6 3Q 1SY 24 Vdc	1SDA054915R1	35.37
Cabled contact for signalling trip coil release		
AUX-SA T4-T5 1S51 not for PR221-222-223	1SDA055050R1	31.51
AUX-SA T6 1S51 for PR221-222-223	1SDA060393R1	POA
Cabled contact for signalling motor operation T4-T5-T6		
AUX-MOE-C T4-T5-T6 1Q x signal manual/automatic	1SDA054917R1	15.76
Auxiliary contact - AUX		
AUX T7 1Q + 1SY 400Va.c.	1SDA062104R1	28.04
AUX T7 1Q + 1SY 24Vd.c.	1SDA062103R1	28.04
AUX T7-T7M-X1 2Q 400Va.c.	1SDA062102R1	28.04
AUX T7-T7M-X1 2Q 24Vd.c.	1SDA062101R1	28.04
AUX-SA T7 1 S51 250Va.c.	1SDA062105R1	53.65
AUX-SA T7M-X1 1 S51 250Va.c.	1SDA063553R1	28.04
Aux contact for ready to ready to close T7M		
AUX-RTC T7M - X1 24Vd.c. ready to close	1SDA062108R1	161.78
AUX-RTC T7M - X1 250Va.c./d.c. ready to close	1SDA062109R1	147.07
Aux contact for springs charged		
AUX-SC T7M - X1 24Vd.c. spring charged	1SDA062106R1	173.59
AUX-SC T7M - X1 250Vac/dc spring charged	1SDA062107R1	18.09
Early aux contact		
AUE T1-T2-T3 2 early contacts	1SDA051374R1	20.03
AUE T4-T5 250Vac/dc 2 early contacts	1SDA054925R1	19.61
AUE T6 250Vac/dc 2 early contacts	1SDA060394R1	24.45
AUE T7 400Va.c. 3 early contacts	1SDA062112R1	POA
Aux position contact		
AUP T2-T3 con inserted signalling	1SDA051372R1	10.03
AUP-I T4-T5-T6 con inserted signalling	1SDA054918R1	9.79
AUP-I T4-T5-T6 24 Vdc con inserted signalling	1SDA054920R1	10.77
AUP-R T4-T5-T6 24 Vdc con withdraw signalling	1SDA054921R1	10.76
AUP-R T4-T5-T6 con withdraw signalling	1SDA054919R1	9.79
AUP T7-T7M-X1 24Vd.c. (2INS+2TEST+2EXT)	1SDA062110R1	82.67
AUP T7-T7M-X1 250Va.c. (2INS+2TEST+2EXT)	1SDA062111R1	82.67

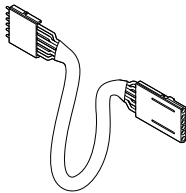


Power distribution circuit breakers

Tmax XT1 ... XT4 & T1 ... T7 accessories



1SDA210N88F0001



1SDC210N34F0001

Electrical Signals

Adapters

	Product Hierarchy 3000006	
	Order Code	Price
ADP 5pin SOR/UVR RC T4-T5-T6 P/W	1SDA055173R1	7.90
ADP 6pin AUX T4-T5-T6 P/W	1SDA054922R1	7.90
ADP 12pin AUX T4-T5-T6 P/W	1SDA054923R1	11.28
ADP 10pin MOE AUE T4-T5-T6 P/W	1SDA054924R1	10.13

Mechanical Signals

Test Extension

Trip Reset 110...130Vac/dc T7 pushbutton operated	1SDA062118R1	120.08
Trip Reset 200...240Vac/dc T7 pushbutton operated	1SDA062119R1	120.08

Trip Reset

Operation Counter T7 pushbutton operated	1SDA062160R1	82.24
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Motor Operators

Stored energy motor operator MOE

MOE XT2-XT4 24 Vdc	1SDA066463R1	384.21
MOE XT2-XT4 48...60 Vdc	1SDA066464R1	384.21
MOE XT2-XT4 110...125 Vac/dc	1SDA066465R1	384.21
MOE XT2-XT4 220...250 Vac/dc	1SDA066466R1	384.21
MOE XT2-XT4 380 Vac	1SDA066467R1	384.21
MOE XT2-XT4 480...525 Vac	1SDA066468R1	384.21

MOE T4-T5 24 Vdc	1SDA054894R1	523.48
MOE T4-T5 48...60 Vdc	1SDA054895R1	523.48
MOE T4-T5 110...125 Vac/dc	1SDA054896R1	523.48
MOE T4-T5 220...250 Vac/dc	1SDA054897R1	523.48
MOE T4-T5 380 Vac	1SDA054898R1	523.48

MOE T6 24 Vdc	1SDA060395R1	622.08
MOE T6 48...60Vdc	1SDA060396R1	622.10
MOE T6 110...125 Vac/dc	1SDA060397R1	622.08
MOE T6 220...250 Vac/dc	1SDA060398R1	622.08
MOE T6 380Vac	1SDA060399R1	622.10

Motor operator with direct action MOD

MOD XT1-XT3 24 Vdc	1SDA066457R1	321.74
MOD XT1-XT3 48...60 Vdc	1SDA066458R1	321.74
MOD XT1-XT3 110...125 Vac/dc	1SDA066459R1	321.74
MOD XT1-XT3 220...250 Vac/dc	1SDA066460R1	321.74
MOD XT1-XT3 380 Vac	1SDA066461R1	321.74
MOD XT1-XT3 480...525 Vac	1SDA066462R1	321.74

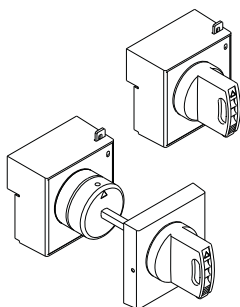
Spring charging motor

Spring charging motor T7M-X1 24...30Vac/dc	1SDA062113R1	323.95
Spring charging motor T7M-X148...60Vac/dc	1SDA062114R1	339.51
Spring charging motor T7M-X1 100...130Vac/	1SDA062115R1	339.50
Spring charging motor T7M-X1 220...250 Vac	1SDA062116R1	339.50
Spring charging motor T7M-X1 380...415Vac	1SDA062117R1	339.50

3

Power distribution circuit breakers

Tmax XT1 ... XT4 & T1 ... T7 accessories



3

Rotary Handle Operating Mechanism

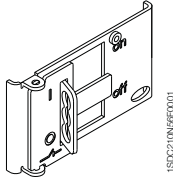
Product Hierarchy 3000006

Breaker	Direct - RHD	Product Hierarchy 3000006	
		Order Code	Price
XT1-XT2-XT3	RHD Standard for fixed and plug-in	1SDA066475R1	48.82
	RHD Emergency for fixed and plug-in	1SDA066477R1	48.82
XT2-XT4	RHD Standard with-drawable	1SDA066476R1	48.82
	RHD Emergency with-drawable	1SDA066478R1	48.82
T4-T5	RHD Standard for fixed and plug-in	1SDA054926R1	57.40
	RHD Emergency for fixed and plug-in	1SDA054927R1	79.26
	RHD Standard with-drawable	1SDA054928R1	56.30
T6	RHD Emergency with-drawable	1SDA055234R1	77.73
	RHD Standard for fixed and plug-in	1SDA060405R1	60.80
	RHD Emergency for fixed and plug-in	1SDA060406R1	83.48
T7	RHD Standard with-drawable	1SDA060407R1	60.80
	RHD Emergency with-drawable	1SDA060408R1	83.48
	RHD Standard for fixed and plug-in	1SDA062120R1	67.04
Toggle operated	RHD Emergency for fixed and plug-in	1SDA062121R1	86.12
	RHD Standard with-drawable	1SDA062120R1	67.04
	RHD Emergency with-drawable	1SDA062121R1	86.12

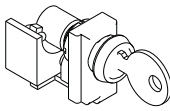
Breaker	Door Mounted Extended - RHE	Product Hierarchy 3000006	
		Order Code	Price
XT1-XT2-XT3	RHE Standard for fixed and plug-in	1SDA066479R1	69.75
	RHE Emergency for fixed and plug-in	1SDA066481R1	69.75
XT2-XT4	RHE Standard with-drawable	1SDA066480R1	69.75
	RHE Emergency with-drawable	1SDA066482R1	69.75
T4-T5	RHE Standard for fixed and plug-in	1SDA054929R1	72.61
	RHE Emergency for fixed and plug-in	1SDA054930R1	88.82
	RHE Standard with-drawable	1SDA054933R1	72.59
T6	RHE Emergency with-drawable	1SDA054934R1	87.06
	RHE Standard for fixed and plug-in	1SDA060409R1	91.47
	RHE Emergency for fixed and plug-in	1SDA060410R1	94.02
T7	RHE Standard with-drawable	1SDA060411R1	91.47
	RHE Emergency with-drawable	1SDA060412R1	94.01
	RHE Standard for fixed and plug-in	1SDA062122R1	99.89
Pushbutton operated	RHE Emergency for fixed and plug-in	1SDA062123R1	109.11
	RHE Standard with-drawable	1SDA062122R1	99.89
	RHE Emergency with-drawable	1SDA062123R1	109.11

Power distribution circuit breakers

Tmax XT1 ... XT4 & T1 ... T7 accessories



1SDC210N56F001



Operating mechanism and locks

Padlock lever lock PPL	Breaker	Product Hierarchy 3000006	
		Order Code	Price
PLL - removable lock with padlocks in open position	XT1-XT3	1SDA066588R1	10.29
PLL - fixed lock with padlocks in open position		1SDA066589R1	15.68
PLL - fixed lock with padlocks in open/close position		1SDA066591R1	15.68
PLL - fixed lock with padlocks in open position	XT2-XT4	1SDA066590R1	15.68
PLL - fixed lock with padlocks in open/close position		1SDA066592R1	15.68
PLL - padlock pushbutton in open position	T7 pushbutton opp.	1SDA062151R1	51.27
PLL - padlock lever in open position	T7 pushbutton toggle	1SDA062150R1	51.27

Key locks KLC

KLC BL.Ronis locked in open position	XT1	1SDA066593R1	44.83
KLC BL.Ronis locked in open position	XT2-XT4	1SDA066599R1	44.83
KLC BL.Ronis locked in open position	XT3	1SDA066605R1	44.83
KLC-D key lock service operation	T7	1SDA062134R1	62.69
KLC key lock Ronis operator adapter		1SDA062139R1	48.22
KLC key lock Profalux operator adapter		1SDA062140R1	48.22

Key locks front/rotary handle KLF

KLF-D different keys	T4-T5	1SDA054939R1	32.42
KLF-S same keys		1SDA054940R1	32.42
KLF-D different keys	T6	1SDA060658R1	31.11
KLF-S key lock EQ.20005		1SDA060659R1	31.11

Key locks extended rotary handle shaft

Castell lock adapter	XT1-XT2-XT3	OETLZW16	46.53
	XT4-T7	OETLZW5	32.60

Key locks motor operator MOL

MOL-D different keys	T4-T5	1SDA054904R1	32.42
	T6	1SDA060611R1	31.12
MOL-S same key for different groups (N.20005)	T4-T5	1SDA054905R1	32.42
	T6	1SDA060612R1	31.12
MOL-M manual operation same key	T4-T5	1SDA054909R1	31.77
	T6	1SDA060616R1	31.12

Key lock in open position on the circuit breaker pushbutton operated

KLC-D key lock service operation	T7M	1SDA062141R1	57.50
KLC Ronis-Profalux		1SDA062146R1	48.22

Key lock on handle

RHL Ronis different keys	XT1-XT4	1SDA066617R1	40.11
RHL Ronis Type A		1SDA066618R1	40.11

3

Power distribution circuit breakers

XT1 ... XT4 & T1 ... T7 accessories

3

Operating mechanism and locks

Product Hierarchy 3000006

	Order Code	Price
Key lock in racked-in/test isolated/rack-out position		
Arrangement for Ronis key lock - can be equipped with two different keys T7	1SDA063567R1	14.90
Arrangement for Profalux key lock T7	1SDA063570R1	14.90
Arrangement for Castell key lock T7	1SDA063568R1	29.78
Arrangement for Kirk key lock T7	1SDA063569R1	29.80

Front lock device

FLD XT2-XT4 F/P	1SDA066635R1	39.05
FLD XT2-XT4 W	1SDA066636R1	39.05
FLD T4-T5 F/P	1SDA054944R1	24.04
FLD T4-T5 W	1SDA054945R1	21.05
FLD T6 F/P	1SDA060417R1	44.15
FLD T6 W	1SDA060418R1	33.84

Transparent Protection for Pushbutton

Pushbuttons trans protection T7 pushbutton operated	1SDA062132R1	35.85
Pushbuttons trans protection independant	1SDA062133R1	35.85
IP54 protection T7 pushbutton operated	1SDA062161R1	67.16

Mechanical Interlock MIR

T4-T5 Horizontal Interlock Frame	1SDA054946R1	99.94
T4-T5 Vertical Interlock Frame	1SDA054947R1	102.66
T4-T5 Type A Interlock Plate T4 (F-P-W) + T4 (F-P-W)	1SDA054948R1	49.96
T4-T5 Type B Interlock Plate T4 (F-P-W) + T5 400 (F-P-W)	1SDA054949R1	49.96
T4-T5 Type C Interlock Plate T6 (F-P-W) + T5 630 (P-W)	1SDA054950R1	49.97
T4-T5 Type D Interlock Plate T5 400 (F-P-W) or T5 630 (F)+T5 400 (F-P-W) or T5 630 (F)	1SDA054951R1	49.96
T4-T5 Type E Interlock Plate T5 400 (F-P-W) or T5 630 (F)+T5 630 (F-W)	1SDA054952R1	49.98
T4-T5 Type F Interlock Plate T5 630 (P-W)+T5 630 (P-W)	1SDA054953R1	49.96
T6 Mechanical Interlock - Horizontal	1SDA060685R1	214.72
T6 Mechanical Interlock - Vertical	1SDA060686R1	214.73

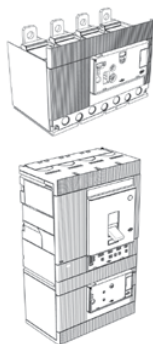
Note: To interlock two T4-T5 circuit breakers you have to order a frame unit interlock and plate (for type A or B or C or D or E or F) interlock

Mechanical Interlock with cables

Kit cable mechanical Interlock HR/VR T7-T7M	1SDA062127R1	156.34
Plate mechanical Interlock T7-T7M back plate fixed	1SDA062129R1	160.45
Plate mechanical Interlock T7M F floor fixed	1SDA062130R1	160.45
Plate mechanical Interlock T7-T7M W	1SDA062131R1	160.45

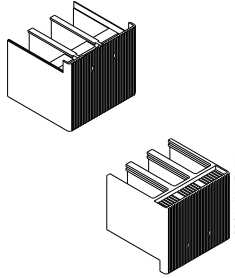
Residual Current Devices

RC Sel x XT1 3p F	1SDA067123R1	368.18
RC Sel x XT1 4p F	1SDA067125R1	395.89
RC Sel x XT2 4p F	1SDA067126R1	416.74
RC Sel x XT3 3p F	1SDA067128R1	542.74
RC Sel x XT3 4p F	1SDA067130R1	583.60
RC Sel x XT4 4p F	1SDA067131R1	614.32
RC 222/5 for T5 4p F	1SDA054955R1	799.20



Power distribution circuit breakers

XT1 ... XT4 & T1 ... T7 accessories



Shrouds and terminals

Product Hierarchy 3000006

High shields	Order Code	Price
XT1 3P High Terminal shields (Pair) - HTC	1SDA066664R1	20.10
XT1 4P High Terminal shields (Pair) - HTC	1SDA066665R1	26.73
XT2 3P High Terminal shields (Pair) - HTC	1SDA066666R1	21.23
XT2 4P High Terminal shields (Pair) - HTC	1SDA066667R1	28.23
XT3 3P High Terminal shields (Pair) - HTC	1SDA066668R1	22.34
XT3 4P High Terminal shields (Pair) - HTC	1SDA066669R1	29.71
XT4 3P High Terminal shields (Pair) - HTC	1SDA066670R1	23.45
XT4 4P High Terminal shields (Pair) - HTC	1SDA066671R1	31.20
T5 3P High Terminal Shields (Pair)	1SDA054960R1	23.57
T5 4P High Terminal Shields (Pair)	1SDA054961R1	30.66
T6 3P High Terminal Shields (Pair)	1SDA014040R1	21.24
T6 4P High Terminal Shields (Pair)	1SDA014041R1	27.02
T7/T7M 3P High Terminal Shields (Pair)	1SDA063091R1	26.16
T7/T7M 4P High Terminal Shields (Pair)	1SDA063092R1	33.29

Low shields

XT1 3P Low Terminal shields (Pair) - HTC	1SDA066655R1	19.53
XT1 4P Low Terminal shields (Pair) - HTC	1SDA066656R1	25.97
XT2 3P Low Terminal shields (Pair) - HTC	1SDA066657R1	20.61
XT2 4P Low Terminal shields (Pair) - HTC	1SDA066659R1	27.42
XT3 3P Low Terminal shields (Pair) - HTC	1SDA066660R1	21.70
XT3 4P Low Terminal shields (Pair) - HTC	1SDA066661R1	28.85
XT4 3P Low Terminal shields (Pair) - HTC	1SDA066662R1	22.79
XT4 4P Low Terminal shields (Pair) - HTC	1SDA066663R1	30.31
T5 3P Low Terminal Shields (Pair)	1SDA054968R1	18.69
T5 4P Low Terminal Shields (Pair)	1SDA054969R1	24.33
T6 3P Low Terminal Shields (Pair)	1SDA014038R1	21.24
T6 4P Low Terminal Shields (Pair)	1SDA014039R1	0
T7/T7M 3P Low Terminal Shields (Pair)	1SDA063093R1	22.14
T7/T7M 4P Low Terminal Shields (Pair)	1SDA063094R1	28.16

Phase barriers

PB100 T4-5-T7-X1 3p PART.DIV.PHA.LOW	1SDA054970R1	11.24
PB100 T4-5-T7-X1 4p PART.DIV.PHA.LOW	1SDA054971R1	16.76
PB200 T4-5-7-T7M-X1 3p PART.DIV.PHA.HIGH	1SDA054972R1	16.83
PB200 T4-5-7-T7M-X1 4p PART.DIV.PHA.HIGH	1SDA054973R1	25.12

Extended front terminals

KIT EF XT1 3pcs	1SDA066865R1	18.83
KIT EF XT2 3pcs	1SDA066869R1	19.87
KIT EF XT3 3pcs	1SDA066873R1	20.91
KIT EF XT4 3pcs	1SDA066877R1	21.96
KIT EF T5 3pcs	1SDA055036R1	23.30
KIT EF T6 630 3pcs	1SDA023379R1	22.98
KIT EF T6 800 3pcs	1SDA023383R1	26.05
KIT EF T7-T7M-X1 3pcs	1SDA063103R1	58.74

KIT EF XT1 4pcs	1SDA066866R1	25.04
KIT EF XT2 4pcs	1SDA066870R1	26.44
KIT EF XT3 4pcs	1SDA066874R1	27.83
KIT EF XT4 4pcs	1SDA066878R1	29.21
KIT EF T5 4pcs	1SDA055037R1	30.27
KIT EF T6 630 4pcs	1SDA023389R1	POA
KIT EF T6 800 4pcs	1SDA023393R1	33.86
KIT EF T7-T7M-X1 4pcs	1SDA063104R1	76.39

Power distribution circuit breakers

XT1 ... XT4 & T1 ... T7 accessories

3

Shrouds and terminals

Product Hierarchy 3000006

Terminals for CuAl cables	Product Hierarchy 3000006	
	Order Code	Price
FC CuAl 1x35...95mm ² XT1 3pcs	1SDA067155R1	21.25
FC CuAl 1x2.5...95mm ² XT2 3pcs	1SDA067163R1	22.31
FC CuAl 2x35...95mm ² XT2 3pcs	1SDA067175R1	45.30
FC CuAl 1x70...185mm ² XT2 3pcs	1SDA067167R1	27.82
FC CuAl 2x35...150mm ² XT3 3pcs	1SDA067187R1	50.35
FC CuAl 1x90...185mm ² XT3 3pcs	1SDA067179R1	34.46
FC CuAl 1x150...240mm ² XT3 3pcs+ADP	1SDA067183R1	76.85
FC CuAl 1x2.5...185mm ² XT4 3pcs	1SDA067191R1	36.17
FC CuAl 2x35...150mm ² XT4 3pcs	1SDA067199R1	63.29
FC CuAl 1x2.5...185mm ² XT4 3pcs	1SDA067191R1	36.17
FC CuAl 2x120mm ² T5 400 3pcs	1SDA055028R1	69.25
FC CuAl 1x240mm ² T5 400 3pcs	1SDA055020R1	49.47
FC CuAl 1x300mm ² T5 400 3pcs	1SDA055024R1	51.94
FC CuAl 2x240mm ² T5 630 3pcs	1SDA055032R1	75.68
FC CuAl 2x240mm ² T6 630-S6 630 3pcs	1SDA023380R1	46.00
FC CuAl 3x185mm ² T6 800-S6 800 3pcs	1SDA023384R1	76.62
FC CuAl 4x150mm ² T6 1000 3 pcs	1SDA060687R1	102.96
FC CuAl 4x240mm ² T7-T7M 1250 3pcs	1SDA063112R1	112.53
FC CuAl 1x35...95mm ² XT1 4pcs	1SDA067156R1	28.26
FC CuAl 1x2.5...95mm ² XT2 4pcs	1SDA067164R1	42.40
FC CuAl 2x35...95mm ² XT2 4pcs	1SDA067176R1	60.27
FC CuAl 1x70...185mm ² XT2 4pcs	1SDA067168R1	37.01
FC CuAl 2x35...150mm ² XT3 4pcs	1SDA067188R1	66.96
FC CuAl 1x90...185mm ² XT3 4pcs	1SDA067180R1	45.81
FC CuAl 1x150...240mm ² XT3 4pcs+ADP	1SDA067184R1	102.20
FC CuAl 1x50mm ² T4 4pcs	1SDA054985R1	21.22
FC CuAl 2x35...150mm ² XT4 4pcs	1SDA067200R1	84.19
FC CuAl 1x2.5...185mm ² XT4 4pcs	1SDA067192R1	48.11
FC CuAl 2x120mm ² T5 400 4pcs	1SDA055029R1	90.03
FC CuAl 1x240mm ² T5 400 4pcs	1SDA055021R1	64.30
FC CuAl 1x300mm ² T5 400 4pcs	1SDA055025R1	67.52
FC CuAl 2x240mm ² T5 630 4pcs	1SDA055033R1	98.37
FC CuAl 2x240mm ² T6 630-S6 630 4pcs	1SDA023390R1	64.08
FC CuAl 3x185mm ² T6 800-S6 800 4pcs	1SDA023394R1	99.65
FC CuAl 4x150mm ² T6 1000 4pcs	1SDA060688R1	133.87
FC CuAl 4x240mm ² T7-T7M 1250 4pcs	1SDA063113R1	155.03
Front terminals		
KIT F XT1 3pcs	1SDA066849R1	12.23
KIT F XT2 3pcs	1SDA066853R1	12.92
KIT F XT3 3pcs	1SDA066857R1	13.60
KIT F XT4 3pcs	1SDA066861R1	14.28
KIT F T5 3pcs	1SDA055012R1	13.72
KIT F T6 630/800 - S6 630/800 3pcs	1SDA060421R1	14.78
KIT F T7-T7M 3pcs	1SDA063099R1	14.34
KIT F XT1 4pcs	1SDA066850R1	16.29
KIT F XT2 4pcs	1SDA066854R1	17.17
KIT F XT3 4pcs	1SDA066858R1	18.09
KIT F XT4 4pcs	1SDA066862R1	18.99
KIT F T5 4pcs	1SDA055013R1	17.80
KIT F T6 630/800 - S6 630/800 4pcs	1SDA060422R1	19.18
KIT F T7-T7M 4pcs	1SDA063100R1	19.16

Power distribution circuit breakers

XT1 ... XT4 & T1 ... T7 accessories

Shrouds and terminals	Product Hierarchy 3000006	
	Order Code	Price
Extended spread front terminals		
KIT ES XT2 3pcs	1SDA066893R1	13.38
KIT ES XT3 3pcs	1SDA066897R1	16.75
KIT ES XT4 3pcs	1SDA066901R1	18.26
KIT ES T5 3pcs	1SDA055040R1	30.06
KIT ES UP T6 - S6 3pcs	1SDA050692R1	121.87
KIT ES LO T6 - S6 3pcs	1SDA050704R1	121.87
KIT ES T7-T7M 3pcs UPP	1SDA063107R1	274.30
KIT ES T7-T7M 3pcs LOW	1SDA063108R1	274.30
Extended spread front terminals (continued)		
KIT ES XT2 4pcs	1SDA066894R1	17.80
KIT ES XT3 4pcs	1SDA066898R1	22.27
KIT ES XT4 4pcs	1SDA066902R1	24.29
KIT ES T5 4pcs	1SDA055041R1	38.28
KIT ES T6 - S6 4pcs	1SDA050693R1	POA
KIT ES T7-T7M 4pcs	1SDA063109R1	356.71
Terminals for Cu cables		
KIT FC Cu XT2 3pcs	1SDA066909R1	8.94
KIT FC Cu XT3 3pcs	1SDA066913R1	9.42
KIT FC Cu XT4 3pcs	1SDA066917R1	18.54
KIT FC Cu 1x240mm2 T5 400 3pcs	1SDA055016R1	49.47
Kit FC Cu 2x240mm2 T5 630 3pcs	1SDA055364R1	51.92
KIT RC 2x150mm2 T6 630 3pcs	1SDA023381R1	63.25
KIT 1/2 3p F F>F RC T6 800	1SDA023385R1	POA
KIT FC Cu XT2 4pcs	1SDA066910R1	11.90
KIT FC Cu XT3 4pcs	1SDA066914R1	12.54
KIT FC Cu XT4 4pcs	1SDA066918R1	26.50
KIT FC Cu 1x240mm2 T5 400 4pcs	1SDA055017R1	64.30
Kit FC Cu 2x240mm2 T5 630 4pcs	1SDA055365R1	64.34
KIT RC 2x150mm2 T6 630 4pcs	1SDA023391R1	82.21
KIT RC 3x240mm2 T6 800 4pcs	1SDA023395R1	95.62
Rear adjustable terminals		
KIT R XT2 3pcs	1SDA066941R1	35.09
KIT R XT3 3pcs	1SDA066945R1	36.94
KIT R XT4 3pcs	1SDA066949R1	38.78
KIT R T5 3pcs	1SDA055044R1	50.28
KIT R T6 3pcs	1SDA060425R1	57.91
KIT R T7-T7M 3pcs	1SDA063116R1	71.40
KIT R XT2 4pcs	1SDA066942R1	46.79
KIT R XT3 4pcs	1SDA066946R1	49.25
KIT R XT4 4pcs	1SDA066950R1	51.72
KIT R T5 4pcs	1SDA055045R1	70.50
KIT R T6 4pcs	1SDA060426R1	82.76
Rear horizontal connectors		
KIT HR T7-T7M 3pcs	1SDA063120R1	59.50
KIT HR T7-T7M 4pcs	1SDA063121R1	77.31
Rear vertical connectors		
KIT VR T7-T7M 3pcs	1SDA063124R1	59.50
KIT VR T7-T7M 4pcs	1SDA063125R1	77.32

Power distribution circuit breakers XT1 ... XT4 & T1 ... T7 accessories

Product Hierarchy 3000006

Front display unit

	Order Code	Price
FDU T4-T5 front display unit x PR222-223	1SDA055051R1	211.32
FDU T6 front display unit x PR222-PR223	1SDA060429R1	243.31

Automatic transfer switches

ATS021 DISP.COMMUT.AUT.S/D MULTI TENS	1SDA065523R1	769.20
ATS022 DISP.COMMUT.AUT.C/D CONT.AV.M/TEN	1SDA065524R1	1468.49

Accessories for electronic trip units

HMI030 switch display unit T4..T7	1SDA063143R1	382.30
PR330/V measuring module PR332 T7	1SDA063144R1	427.72
PR330/D-M communication module PR332-3 T7-T7M	1SDA063145R1	329.13
PR330/R driving unit PR332-3 T7-T7M	1SDA063146R1	51.27
PR030/B battery unit E1/6-T7-T7M-X1	1SDA058258R1	98.06

Test and Configurator Unit

Ekip TT XT2-XT4	1SDA066988R1	149.18
Ekip T&P	1SDA066989R1	2773.39

3

Emax air circuit breakers

X1N ACBs & X1B/MS disconnectors



Ratings @ 400V

	Icu	Ics
X1N	50kA	100%
X1B/MS	42kA	100%



Full range of product and technical information place this part number in a search engine and download
1SDC200009D0203

X1N PR331/P

Product Hierarchy 2900003

			Fixed breaker front connection				Moving Portion			
Model	Current (A) In	Protection	3 pole		4 pole		3 pole		4 pole	
			Order Code	Price	Order Code	Price	Order Code	Price	Order Code	Price
X1N800	800	LSI	1SDA062282R1	2289.52	1SDA062291R1	2904.60	1SDA062300R1	2452.04	1SDA062309R1	3115.88
		LSIG	1SDA062283R1	2412.99	1SDA062292R1	3028.11	1SDA062301R1	2575.52	1SDA062310R1	3239.35
X1N1000	1000	LSI	1SDA062390R1	2335.52	1SDA062399R1	2968.12	1SDA062408R1	2498.04	1SDA062417R1	3179.39
		LSIG	1SDA062391R1	2459.01	1SDA062400R1	3091.61	1SDA062409R1	2621.53	1SDA062418R1	3302.87
X1N1250	1250	LSI	1SDA062498R1	2424.82	1SDA062507R1	3027.97	1SDA062516R1	2587.32	1SDA062525R1	3239.24
		LSIG	1SDA062499R1	2548.31	1SDA062508R1	3151.46	1SDA062517R1	2710.82	1SDA062526R1	3362.72
X1N1600	1600	LSI	1SDA062606R1	2490.94	1SDA062615R1	3132.08	1SDA062624R1	2653.47	1SDA062633R1	3343.34
		LSIG	1SDA062607R1	2614.44	1SDA062616R1	3255.57	1SDA062625R1	2776.96	1SDA062634R1	3466.84

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X1N PR332/P

Product Hierarchy 2900003

			Fixed breaker front connection				Moving Portion			
Model	Current (A) In	Protection	3 pole		4 pole		3 pole		4 pole	
			Order Code	Price	Order Code	Price	Order Code	Price	Order Code	Price
X1N800	800	LSI	1SDA062285R1	2318.79	1SDA062294R1	2933.88	1SDA062303R1	2481.27	1SDA062312R1	3145.16
		LSIG	1SDA062286R1	2637.40	1SDA062295R1	3252.50	1SDA062304R1	2799.92	1SDA062313R1	3463.75
X1N1000	1000	LSI	1SDA062393R1	2364.79	1SDA062402R1	2997.39	1SDA062411R1	2527.29	1SDA062420R1	3208.66
		LSIG	1SDA062394R1	2683.42	1SDA062403R1	3316.02	1SDA062412R1	2845.92	1SDA062421R1	3527.27
X1N1250	1250	LSI	1SDA062501R1	2454.09	1SDA062510R1	3057.24	1SDA062519R1	2616.60	1SDA062528R1	3268.49
		LSIG	1SDA062502R1	2772.71	1SDA062511R1	3375.87	1SDA062520R1	2935.21	1SDA062529R1	3587.13
X1N1600	1600	LSI	1SDA062609R1	2520.23	1SDA062618R1	3161.36	1SDA062627R1	2682.73	1SDA062636R1	3372.63
		LSIG	1SDA062610R1	2838.85	1SDA062619R1	3479.98	1SDA062628R1	3001.35	1SDA062637R1	3691.23

X1B/MS Icw 42kA

Product Hierarchy 2900003

		Fixed breaker front connection				Moving Portion			
Model	Current (A) In	3 pole		4 pole		3 pole		4 pole	
		Order Code	Price	Order Code	Price	Order Code	Price	Order Code	Price
X1B/MS10	1000	1SDA062052R1	1638.75	1SDA062053R1	2141.52	1SDA062054R1	1801.26	1SDA062055R1	2352.78
X1B/MS12	1250	1SDA062056R1	1749.64	1SDA062057R1	2181.35	1SDA062058R1	1912.14	1SDA062059R1	2497.32
X1B/MS16	1600	1SDA062060R1	1820.67	1SDA062061R1	2390.42	1SDA062062R1	1983.18	1SDA062063R1	2601.67

Emax air circuit breakers

E1N



Ue 690V
Ratings @ 415V

	Icu	Ics	Icw	
			1s	3s
E1N	50kA	50kA	50kA	36kA
4th pole		100%		



Full range of product and technical information place this part number in a search engine and download

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E1N 50kA PR121/P

Product Hierarchy 2900003

			Fixed breaker front connection				Moving Portion			
Model	Current (A) In	Protection	3 pole		4 pole		3 pole		4 pole	
			Order Code	Price	Order Code	Price	Order Code	Price	Order Code	Price
E1N800	800	LSI	1SDA055697R1	2425.64	1SDA055705R1	3199.66	1SDA055713R1	2575.28	1SDA055721R1	3349.09
		LSIG	1SDA055698R1	2934.31	1SDA055706R1	3363.92	1SDA055714R1	2977.09	1SDA055722R1	3507.57
E1N1250	1250	LSI	1SDA055729R1	2560.21	1SDA055737R1	3387.77	1SDA055745R1	2719.96	1SDA055753R1	3497.16
		LSIG	1SDA055730R1	2961.42	1SDA055738R1	3544.76	1SDA055746R1	3127.51	1SDA055754R1	3649.95
E1N1600	1600	LSI	1SDA055761R1	2597.31	1SDA055769R1	3462.28	1SDA055777R1	2941.28	1SDA055785R1	3919.56
		LSIG	1SDA055762R1	2999.99	1SDA055770R1	3616.39	1SDA055778R1	3357.75	1SDA055786R1	4056.11

E1N 50kA PR122/P

Product Hierarchy 2900003

			Fixed breaker front connection				Moving Portion			
Model	Current (A) In	Protection	3 pole		4 pole		3 pole		4 pole	
			Order Code	Price	Order Code	Price	Order Code	Price	Order Code	Price
E1N800	800	LSI	1SDA055700R1	2558.41	1SDA055708R1	3235.42	1SDA055716R1	2714.11	1SDA055724R1	3384.82
		LSIG	1SDA055701R1	2872.94	1SDA055709R1	3549.97	1SDA055717R1	3028.63	1SDA055725R1	3699.34
E1N1250	1250	LSI	1SDA055732R1	2698.44	1SDA055740R1	3423.57	1SDA055748R1	2864.51	1SDA055756R1	3532.93
		LSIG	1SDA055733R1	3012.91	1SDA055741R1	3738.09	1SDA055749R1	3179.05	1SDA055757R1	3847.46
E1N1600	1600	LSI	1SDA055764R1	2736.95	1SDA055772R1	3498.05	1SDA055780R1	3094.75	1SDA055788R1	3955.37
		LSIG	1SDA055765R1	3051.44	1SDA055773R1	3812.55	1SDA055781R1	3409.27	1SDA055789R1	4269.89

E1N 50kA PR123/P

Product Hierarchy 2900003

			Fixed breaker front connection				Moving Portion			
Model	Current (A) In	Protection	3 pole		4 pole		3 pole		4 pole	
			Order Code	Price	Order Code	Price	Order Code	Price	Order Code	Price
E1N800	800	LSI	1SDA055702R1	4240.34	1SDA055710R1	4917.33	1SDA055718R1	4395.99	1SDA055726R1	5066.76
		LSIG	1SDA055703R1	4525.18	1SDA055711R1	5202.17	1SDA055719R1	4680.82	1SDA055727R1	5351.59
E1N1250	1250	LSI	1SDA055734R1	4380.27	1SDA055742R1	5105.45	1SDA055750R1	4546.41	1SDA055758R1	5214.83
		LSIG	1SDA055735R1	4665.11	1SDA055743R1	5390.29	1SDA055751R1	4831.25	1SDA055759R1	5499.67
E1N1600	1600	LSI	1SDA055766R1	4418.86	1SDA055774R1	5179.94	1SDA055782R1	4776.68	1SDA055790R1	5637.26
		LSIG	1SDA055767R1	4703.69	1SDA055775R1	5464.78	1SDA055783R1	5061.46	1SDA055791R1	5922.09

Emax air circuit breakers

E2N



Ue 690V
Ratings @ 415V

	Icu	Ics	Icw	
			1s	3s
E2N	65kA	65kA	55kA	42kA
4th pole 100%				



Full range of product and technical information place this part number in a search engine and download
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E2N 65kA PR121/P

Product Hierarchy 2900003

			Fixed breaker front connection				Moving Portion			
Model	Current (A) In	Protection	3 pole		4 pole		3 pole		4 pole	
			Order Code	Price	Order Code	Price	Order Code	Price	Order Code	Price
E2N1250	1250	LSI	1SDA055857R1	2611.34	1SDA055865R1	3464.14	1SDA055873R1	2724.17	1SDA055881R1	3509.11
		LSIG	1SDA055858R1	3014.58	1SDA055866R1	3618.23	1SDA055874R1	3131.92	1SDA055882R1	3661.47
E2N1600	1600	LSI	1SDA055889R1	2699.61	1SDA055897R1	3608.69	1SDA055905R1	3003.99	1SDA055913R1	4272.18
		LSIG	1SDA055890R1	3106.38	1SDA055898R1	3757.22	1SDA055906R1	3422.96	1SDA055914R1	4395.20
E2N2000	2000	LSI	1SDA055921R1	3626.32	1SDA055929R1	4649.62	1SDA055937R1	3932.33	1SDA055945R1	5253.23
		LSIG	1SDA055922R1	4070.14	1SDA055930R1	4758.07	1SDA055938R1	4388.39	1SDA055946R1	5338.48

3

E2N 65kA PR122/P

Product Hierarchy 2900003

			Fixed breaker front connection				Moving Portion			
Model	Current (A) In	Protection	3 pole		4 pole		3 pole		4 pole	
			Order Code	Price	Order Code	Price	Order Code	Price	Order Code	Price
E2N1250	1250	LSI	1SDA055860R1	2751.57	1SDA055868R1	3499.92	1SDA055876R1	2868.88	1SDA055884R1	3544.91
		LSIG	1SDA055861R1	3066.10	1SDA055869R1	3814.45	1SDA055877R1	3183.42	1SDA055885R1	3859.43
E2N1600	1600	LSI	1SDA055892R1	2843.33	1SDA055900R1	3644.50	1SDA055908R1	3159.96	1SDA055916R1	4307.95
		LSIG	1SDA055893R1	3157.85	1SDA055901R1	3959.03	1SDA055909R1	3474.44	1SDA055917R1	4622.48
E2N2000	2000	LSI	1SDA055924R1	3807.13	1SDA055932R1	4685.40	1SDA055940R1	4125.40	1SDA055948R1	5288.99
		LSIG	1SDA055925R1	4121.68	1SDA055933R1	4999.88	1SDA055941R1	4439.93	1SDA055949R1	5388.00

E2N 65kA PR123/P

Product Hierarchy 2900003

			Fixed breaker front connection				Moving Portion			
Model	Current (A) In	Protection	3 pole		4 pole		3 pole		4 pole	
			Order Code	Price	Order Code	Price	Order Code	Price	Order Code	Price
E2N1250	1250	LSI	1SDA055862R1	4433.50	1SDA055870R1	5181.82	1SDA055878R1	4550.80	1SDA055886R1	5226.85
		LSIG	1SDA055863R1	4718.29	1SDA055871R1	5466.66	1SDA055879R1	4835.62	1SDA055887R1	5511.66
E2N1600	1600	LSI	1SDA055894R1	4525.25	1SDA055902R1	5326.39	1SDA055910R1	4841.83	1SDA055918R1	5989.89
		LSIG	1SDA055895R1	4810.06	1SDA055903R1	5611.23	1SDA055911R1	5126.65	1SDA055919R1	6274.68
E2N2000	2000	LSI	1SDA055926R1	5489.04	1SDA055934R1	6367.30	1SDA055942R1	5807.33	1SDA055950R1	6970.93
		LSIG	1SDA055927R1	5773.87	1SDA055935R1	6652.07	1SDA055943R1	6092.12	1SDA055951R1	7255.74

Emax air circuit breakers

E2S



Ue 690V
Ratings @ 415V

	Icu	Ics	Icw	
			1s	3s
E2S	85kA	85kA	65kA	50kA

4th pole 100%



Full range of product and technical information place this part number in a search engine and download

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3

E2S 85kA PR121/P

Product Hierarchy 2900003

Model	Current (A) In	Protection	Fixed breaker front connection				Moving Portion			
			3 pole		4 pole		3 pole		4 pole	
			Order Code	Price	Order Code	Price	Order Code	Price	Order Code	Price
E2S800	800	LSI	1SDA058283R1	2592.89	1SDA058291R1	3290.16	1SDA058299R1	2753.18	1SDA058307R1	3444.06
		LSIG	1SDA058284R1	2891.67	1SDA058292R1	3588.99	1SDA058300R1	3051.99	1SDA058308R1	3742.84
E2S1250	1250	LSI	1SDA055953R1	2791.80	1SDA055961R1	3562.61	1SDA055969R1	2912.59	1SDA055881R1	3509.11
		LSIG	1SDA055954R1	3090.58	1SDA055962R1	3861.40	1SDA055970R1	3211.44	1SDA055882R1	3661.47
E2S1600	1600	LSI	1SDA055985R1	2886.30	1SDA055993R1	3711.50	1SDA056001R1	3212.40	1SDA056009R1	4394.92
		LSIG	1SDA055986R1	3185.11	1SDA055994R1	4010.30	1SDA056002R1	3511.23	1SDA056010R1	4693.72
E2S2000	2000	LSI	1SDA056017R1	3879.02	1SDA056025R1	4783.62	1SDA056033R1	4206.82	1SDA056041R1	5405.37
		LSIG	1SDA056018R1	4177.83	1SDA056026R1	5082.40	1SDA056034R1	4505.64	1SDA056042R1	5704.17

E2S 85kA PR122/P

Product Hierarchy 2900003

Model	Current (A) In	Protection	Fixed breaker front connection				Moving Portion			
			3 pole		4 pole		3 pole		4 pole	
			Order Code	Price	Order Code	Price	Order Code	Price	Order Code	Price
E2S800	800	LSI	1SDA058286R1	2628.61	1SDA058294R1	3325.93	1SDA058302R1	2788.96	1SDA058310R1	3479.85
		LSIG	1SDA058287R1	2943.14	1SDA058295R1	3640.47	1SDA058303R1	3103.46	1SDA058311R1	3794.36
E2S1250	1250	LSI	1SDA055956R1	2827.57	1SDA055964R1	3598.38	1SDA055972R1	2948.41	1SDA055980R1	3644.73
		LSIG	1SDA055957R1	3142.05	1SDA055965R1	3912.91	1SDA055973R1	3262.95	1SDA055981R1	3959.27
E2S1600	1600	LSI	1SDA055988R1	2922.10	1SDA055996R1	3747.30	1SDA056004R1	3248.17	1SDA056012R1	4430.66
		LSIG	1SDA055989R1	3236.63	1SDA055997R1	4061.81	1SDA056005R1	3562.67	1SDA056013R1	4745.17
E2S2000	2000	LSI	1SDA056020R1	3914.78	1SDA056028R1	4819.37	1SDA056036R1	4242.64	1SDA056044R1	5441.13
		LSIG	1SDA056021R1	4229.31	1SDA056029R1	5133.90	1SDA056037R1	4557.18	1SDA056045R1	5755.65

E2S 85kA PR123/P

Product Hierarchy 2900003

Model	Current (A) In	Protection	Fixed breaker front connection				Moving Portion			
			3 pole		4 pole		3 pole		4 pole	
			Order Code	Price	Order Code	Price	Order Code	Price	Order Code	Price
E2S800	800	LSI	1SDA058288R1	4310.54	1SDA058296R1	5007.86	1SDA058304R1	4470.89	1SDA058312R1	5161.77
		LSIG	1SDA058289R1	4595.33	1SDA058297R1	5292.65	1SDA058305R1	4755.68	1SDA058313R1	5446.56
E2S1250	1250	LSI	1SDA055958R1	4509.46	1SDA055966R1	5280.31	1SDA055974R1	4630.34	1SDA055982R1	5326.63
		LSIG	1SDA055959R1	4794.31	1SDA055967R1	5565.10	1SDA055975R1	4915.14	1SDA055983R1	5611.43
E2S1600	1600	LSI	1SDA055990R1	4603.99	1SDA055998R1	5429.18	1SDA056006R1	4930.07	1SDA056014R1	6112.56
		LSIG	1SDA055991R1	4888.83	1SDA055999R1	5713.98	1SDA056007R1	5214.86	1SDA056015R1	6397.39
E2S2000	2000	LSI	1SDA056022R1	5596.71	1SDA056030R1	6501.26	1SDA056038R1	5924.53	1SDA056046R1	7123.05
		LSIG	1SDA056023R1	5881.51	1SDA056031R1	6786.09	1SDA056039R1	6209.36	1SDA056047R1	7407.87

Emax air circuit breakers

E3S



Ue 690V
Ratings @ 415V

	Icu	Ics	Icw	
			1s	3s
E3S	75kA	75kA	75kA	65kA
4th pole 100%				



Full range of product and technical information place this part number in a search engine and download
1SDC200009D0203

E3S 75kA PR121/P

Product Hierarchy 2900003

			Fixed breaker front connection				Moving Portion			
Model	Current (A) In	Protection	3 pole		4 pole		3 pole		4 pole	
			Order Code	Price	Order Code	Price	Order Code	Price	Order Code	Price
E3S1250	1250	LSI	1SDA056177R1	2870.07	1SDA056185R1	3663.99	1SDA056193R1	2994.53	1SDA056201R1	3711.77
		LSIG	1SDA056178R1	3168.89	1SDA056186R1	3962.80	1SDA056194R1	3293.34	1SDA056202R1	4010.54
E3S1600	1600	LSI	1SDA056209R1	2950.68	1SDA056217R1	3768.45	1SDA056225R1	3078.91	1SDA056233R1	3817.62
		LSIG	1SDA056210R1	3249.50	1SDA056218R1	4067.20	1SDA056226R1	3377.72	1SDA056234R1	4116.42
E3S2000	2000	LSI	1SDA056241R1	3989.94	1SDA056249R1	4921.64	1SDA056257R1	4327.56	1SDA056265R1	5562.07
		LSIG	1SDA056242R1	4288.76	1SDA056250R1	5220.40	1SDA056258R1	4626.38	1SDA056266R1	5860.86
E3S2500	2500	LSI	1SDA056273R1	4511.24	1SDA056281R1	5969.52	1SDA056289R1	5175.84	1SDA056297R1	6738.13
		LSIG	1SDA056274R1	4810.06	1SDA056282R1	6268.30	1SDA056290R1	5474.66	1SDA056298R1	7036.93
E3S3200	3200	LSI	1SDA056305R1	5872.42	1SDA056313R1	7604.62	1SDA056321R1	7179.33	1SDA056329R1	9370.45
		LSIG	1SDA056306R1	6171.21	1SDA056314R1	7903.44	1SDA056322R1	7478.11	1SDA056330R1	9669.26

3

E3S 75kA PR122/P

Product Hierarchy 2900003

			Fixed breaker front connection				Moving Portion			
Model	Current (A) In	Protection	3 pole		4 pole		3 pole		4 pole	
			Order Code	Price	Order Code	Price	Order Code	Price	Order Code	Price
E3S1250	1250	LSI	1SDA056372R1	3212.98	1SDA056380R1	4001.10	1SDA056196R1	3030.28	1SDA056204R1	3747.48
		LSIG	1SDA056373R1	3527.50	1SDA056381R1	4315.63	1SDA056197R1	3344.82	1SDA056205R1	4062.01
E3S1600	1600	LSI	1SDA056212R1	2986.48	1SDA056220R1	3804.20	1SDA056228R1	3114.66	1SDA056236R1	3853.42
		LSIG	1SDA056213R1	3300.96	1SDA056221R1	4118.73	1SDA056229R1	3429.15	1SDA056237R1	4167.90
E3S2000	2000	LSI	1SDA056244R1	4025.66	1SDA056252R1	4957.43	1SDA056260R1	4363.36	1SDA056268R1	5597.85
		LSIG	1SDA056245R1	4340.19	1SDA056253R1	5271.95	1SDA056261R1	4677.89	1SDA056269R1	5908.79
E3S2500	2500	LSI	1SDA056276R1	4547.05	1SDA056284R1	6005.29	1SDA056292R1	5211.61	1SDA056300R1	6773.92
		LSIG	1SDA056277R1	4861.56	1SDA056285R1	6319.81	1SDA056293R1	5526.14	1SDA056301R1	7088.44
E3S3200	3200	LSI	1SDA056308R1	5908.21	1SDA056316R1	7640.42	1SDA056324R1	7215.09	1SDA056332R1	9406.26
		LSIG	1SDA056309R1	6222.69	1SDA056317R1	7954.92	1SDA056325R1	7529.61	1SDA056333R1	9720.78

E3S 75kA PR123/P

Product Hierarchy 2900003

			Fixed breaker front connection				Moving Portion			
Model	Current (A) In	Protection	3 pole		4 pole		3 pole		4 pole	
			Order Code	Price	Order Code	Price	Order Code	Price	Order Code	Price
E3S1250	1250	LSI	1SDA056182R1	4587.72	1SDA056190R1	5381.66	1SDA056198R1	4712.22	1SDA056206R1	5429.41
		LSIG	1SDA056183R1	4872.50	1SDA056191R1	5666.47	1SDA056199R1	4997.01	1SDA056207R1	5714.21
E3S1600	1600	LSI	1SDA056214R1	4668.37	1SDA056222R1	5486.12	1SDA056230R1	4796.56	1SDA056238R1	5535.26
		LSIG	1SDA056215R1	4953.17	1SDA056223R1	5770.93	1SDA056231R1	5081.36	1SDA056239R1	5820.14
E3S2000	2000	LSI	1SDA056246R1	5707.58	1SDA056254R1	6639.30	1SDA056262R1	6045.25	1SDA056270R1	7279.74
		LSIG	1SDA056247R1	5992.39	1SDA056255R1	6924.13	1SDA056263R1	6330.06	1SDA056271R1	7564.54
E3S2500	2500	LSI	1SDA056278R1	6228.98	1SDA056286R1	7687.18	1SDA056294R1	6893.50	1SDA056302R1	8455.80
		LSIG	1SDA056279R1	6513.77	1SDA056287R1	7972.03	1SDA056295R1	7178.34	1SDA056303R1	8740.65
E3S3200	3200	LSI	1SDA056310R1	7590.11	1SDA056318R1	9106.14	1SDA056326R1	8896.97	1SDA056334R1	11088.18
		LSIG	1SDA056311R1	7874.94	1SDA056319R1	9390.93	1SDA056327R1	9181.82	1SDA056335R1	11372.99

Emax air circuit breakers

E3H



Ue 690V
Ratings @ 415V

	Icu	Ics	Icw	
			1s	3s
E3H	100kA	85kA	75kA	65kA
4th pole 100%				



Full range of product and technical information place this part number in a search engine and download

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E3H 100kA PR121/P

Product Hierarchy 2900003

Model	Current (A) In	Protection	Fixed breaker front connection				Moving Portion			
			3 pole		4 pole		3 pole		4 pole	
			Order Code	Price	Order Code	Price	Order Code	Price	Order Code	Price
E3H800	800	LSI	1SDA056337R1	3029.88	1SDA056345R1	3798.72	1SDA056353R1	3071.96	1SDA056361R1	3802.09
		LSIG	1SDA056338R1	3328.72	1SDA056346R1	4097.49	1SDA056354R1	3370.78	1SDA056362R1	4100.91
E3H1250	1250	LSI	1SDA056369R1	3177.25	1SDA056377R1	3965.29	1SDA056385R1	3225.32	1SDA056393R1	3921.09
		LSIG	1SDA056370R1	3475.99	1SDA056378R1	4264.10	1SDA056386R1	3524.12	1SDA056394R1	4219.90
E3H1600	1600	LSI	1SDA056401R1	3313.53	1SDA056409R1	4233.79	1SDA056417R1	3592.23	1SDA056425R1	4650.68
		LSIG	1SDA056402R1	3612.36	1SDA056410R1	4532.60	1SDA056418R1	3891.00	1SDA056426R1	4949.47
E3H2000	2000	LSI	1SDA056433R1	4358.72	1SDA056441R1	5365.81	1SDA056449R1	4628.35	1SDA056457R1	5883.91
		LSIG	1SDA056434R1	4657.49	1SDA056442R1	5664.61	1SDA056450R1	4927.17	1SDA056458R1	6182.74
E3H2500	2500	LSI	1SDA056465R1	5707.04	1SDA056473R1	7020.80	1SDA056481R1	6711.85	1SDA056489R1	8258.85
		LSIG	1SDA056466R1	6005.80	1SDA056474R1	7319.61	1SDA056482R1	7010.66	1SDA056490R1	8107.20
E3H3200	3200	LSI	1SDA056497R1	7037.02	1SDA056505R1	9088.84	1SDA056513R1	8636.70	1SDA056521R1	10839.35
		LSIG	1SDA056498R1	7335.87	1SDA056506R1	9387.63	1SDA056514R1	8935.48	1SDA056522R1	11138.20

E3H 100kA PR122/P

Product Hierarchy 2900003

Model	Current (A) In	Protection	Fixed breaker front connection				Moving Portion			
			3 pole		4 pole		3 pole		4 pole	
			Order Code	Price	Order Code	Price	Order Code	Price	Order Code	Price
E3H800	800	LSI	1SDA056340R1	3065.69	1SDA056348R1	3834.48	1SDA056356R1	3107.76	1SDA056364R1	3837.87
		LSIG	1SDA056341R1	3380.18	1SDA056349R1	4149.02	1SDA056357R1	3422.29	1SDA056365R1	4152.39
E3H1250	1250	LSI	1SDA056373R1	3527.50	1SDA056180R1	2905.84	1SDA056389R1	3575.59	1SDA056396R1	3956.88
		LSIG	1SDA056404R1	3349.31	1SDA056181R1	3220.33	1SDA056420R1	3627.99	1SDA056397R1	4271.37
E3H1600	1600	LSI	1SDA056405R1	3663.80	1SDA056412R1	4269.58	1SDA056421R1	3942.52	1SDA056428R1	4686.47
		LSIG	1SDA056436R1	4394.45	1SDA056413R1	4584.11	1SDA056452R1	4664.16	1SDA056429R1	5001.00
E3H2000	2000	LSI	1SDA056437R1	4708.96	1SDA056444R1	5401.60	1SDA056453R1	4978.69	1SDA056460R1	5919.73
		LSIG	1SDA056468R1	5742.76	1SDA056445R1	5716.09	1SDA056484R1	6747.66	1SDA056461R1	6234.25
E3H2500	2500	LSI	1SDA056469R1	6057.27	1SDA056476R1	7056.61	1SDA056485R1	7062.13	1SDA056492R1	7844.19
		LSIG	1SDA056500R1	7072.82	1SDA056477R1	7371.15	1SDA056516R1	8672.48	1SDA056493R1	8158.66
E3H3200	3200	LSI	1SDA056501R1	7387.30	1SDA056508R1	9124.62	1SDA056517R1	8986.98	1SDA056524R1	10875.19
		LSIG	1SDA056502R1	8754.71	1SDA056509R1	9439.11	1SDA056517R1	8986.98	1SDA056525R1	11189.70

E3H 100kA PR123/P

Product Hierarchy 2900003

Model	Current (A) In	Protection	Fixed breaker front connection				Moving Portion			
			3 pole		4 pole		3 pole		4 pole	
			Order Code	Price	Order Code	Price	Order Code	Price	Order Code	Price
E3H800	800	LSI	1SDA056342R1	4747.58	1SDA056350R1	5516.41	1SDA056358R1	4789.65	1SDA056366R1	5519.80
		LSIG	1SDA056343R1	5032.37	1SDA056351R1	5801.20	1SDA056359R1	5074.49	1SDA056367R1	5804.59
E3H1250	1250	LSI	1SDA056182R1	4587.72	1SDA056190R1	5381.66	1SDA056390R1	4943.01	1SDA056398R1	5638.73
		LSIG	1SDA056183R1	4872.50	1SDA056191R1	5666.47	1SDA056391R1	5227.80	1SDA056399R1	5923.60
E3H1600	1600	LSI	1SDA056406R1	5031.20	1SDA056414R1	5951.52	1SDA056422R1	5309.88	1SDA056430R1	6368.40
		LSIG	1SDA056407R1	5316.04	1SDA056415R1	6236.32	1SDA056423R1	5594.71	1SDA056431R1	6653.20
E3H2000	2000	LSI	1SDA056438R1	6076.37	1SDA056446R1	7083.45	1SDA056454R1	6346.01	1SDA056462R1	7601.61
		LSIG	1SDA056439R1	6361.17	1SDA056447R1	7368.32	1SDA056455R1	6630.89	1SDA056463R1	7886.44
E3H2500	2500	LSI	1SDA056470R1	7424.68	1SDA056478R1	8738.54	1SDA056486R1	8429.50	1SDA056494R1	9526.03
		LSIG	1SDA056471R1	7709.49	1SDA056479R1	9023.34	1SDA056487R1	8714.39	1SDA056495R1	9810.87
E3H3200	3200	LSI	1SDA056502R1	8754.71	1SDA056510R1	10806.52	1SDA056518R1	10354.40	1SDA056526R1	12557.11
		LSIG	1SDA056503R1	9039.54	1SDA056511R1	11091.32	1SDA056519R1	10639.20	1SDA056527R1	12841.91

Emax air circuit breakers

E4H



Ue 690V
Ratings @ 415V

	Icu	Ics	Icw	
			1s	3s
E4H	100kA	100kA	100kA	75kA
4th pole 50%				



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E4H 100kA PR121/P

Product Hierarchy 2900003

			Fixed breaker front connection				Moving Portion			
Model	Current (A) In	Protection	3 pole		4 pole		3 pole		4 pole	
			Order Code	Price	Order Code	Price	Order Code	Price	Order Code	Price
E4H3200	3200	LSI	1SDA056817R1	7516.87	1SDA056825R1	9140.50	1SDA056833R1	8718.78	1SDA056841R1	10880.79
		LSIG	1SDA056818R1	7815.64	1SDA056826R1	9439.28	1SDA056834R1	9017.55	1SDA056842R1	11179.59
E4H4000	4000	LSI	1SDA056849R1	9446.70	1SDA056857R1	11202.13	1SDA056865R1	11167.51	1SDA056873R1	12907.34
		LSIG	1SDA056850R1	9745.51	1SDA056858R1	11500.94	1SDA056866R1	11466.28	1SDA056874R1	13206.15

3

E4H 100kA PR122/P

Product Hierarchy 2900003

			Fixed breaker front connection				Moving Portion			
Model	Current (A) In	Protection	3 pole		4 pole		3 pole		4 pole	
			Order Code	Price	Order Code	Price	Order Code	Price	Order Code	Price
E4H3200	3200	LSI	1SDA056820R1	7552.65	1SDA056828R1	9176.27	1SDA056836R1	8754.55	1SDA056844R1	10916.57
		LSIG	1SDA056821R1	7867.12	1SDA056829R1	9490.79	1SDA056837R1	9069.07	1SDA056845R1	11231.06
E4H4000	4000	LSI	1SDA056852R1	9482.49	1SDA056860R1	11237.94	1SDA056868R1	11203.28	1SDA056876R1	12943.15
		LSIG	1SDA056853R1	9797.03	1SDA056861R1	11552.46	1SDA056869R1	11517.80	1SDA056877R1	13257.68

E4H 100kA PR123/P

Product Hierarchy 2900003

			Fixed breaker front connection				Moving Portion			
Model	Current (A) In	Protection	3 pole		4 pole		3 pole		4 pole	
			Order Code	Price	Order Code	Price	Order Code	Price	Order Code	Price
E4H3200	3200	LSI	1SDA056822R1	9234.51	1SDA056830R1	10858.19	1SDA056838R1	10436.47	1SDA056849R1	9446.70
		LSIG	1SDA056823R1	9519.36	1SDA056831R1	11142.99	1SDA056839R1	10721.27	1SDA056847R1	12883.30
E4H4000	4000	LSI	1SDA056854R1	11164.39	1SDA056862R1	12919.86	1SDA056870R1	12885.17	1SDA056878R1	14625.05
		LSIG	1SDA056855R1	11449.22	1SDA056863R1	13204.65	1SDA056871R1	13170.01	1SDA056879R1	14909.85

Emax air circuit breakers

E6H



Ue 690V
Ratings @ 415V

	Icu	Ics	Icw	
			1s	3s
E6H	100kA	100kA	100kA	85kA

4th pole 50%



Full range of product and technical information place this part number in a search engine and download

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E6H 100kA PR121/P

Product Hierarchy 2900003

			Fixed breaker front connection				Moving Portion			
Model	Current (A) In	Protection	3 pole		4 pole		3 pole		4 pole	
			Order Code	Price	Order Code	Price	Order Code	Price	Order Code	Price
E6H4000	4000	LSI	1SDA056945R1	9635.81	1SDA056953R1	11427.04	1SDA056961R1	11376.76	1SDA056969R1	13744.24
		LSIG	1SDA056946R1	9934.57	1SDA056954R1	11725.84	1SDA056962R1	11675.56	1SDA056970R1	14043.02
E6H5000	5000	LSI	1SDA056977R1	14900.42	1SDA056985R1	15852.45	1SDA056993R1	15152.55	1SDA057001R1	18747.84
		LSIG	1SDA056978R1	15199.24	1SDA056986R1	16151.26	1SDA056994R1	15451.32	1SDA057002R1	19046.65
E6H6300	6300	LSI	1SDA057009R1	19514.82	1SDA057017R1	20768.79	1SDA057025R1	20784.19	1SDA057033R1	24581.72
		LSIG	1SDA057010R1	19813.59	1SDA057018R1	21067.55	1SDA057026R1	21082.99	1SDA057034R1	24880.49

E6H 100kA PR122/P

Product Hierarchy 2900003

			Fixed breaker front connection				Moving Portion			
Model	Current (A) In	Protection	3 pole		4 pole		3 pole		4 pole	
			Order Code	Price	Order Code	Price	Order Code	Price	Order Code	Price
E6H4000	4000	LSI	1SDA056948R1	9671.56	1SDA056956R1	11462.84	1SDA056964R1	11412.51	1SDA056972R1	13780.01
		LSIG	1SDA056949R1	9986.11	1SDA056957R1	11777.32	1SDA056965R1	11727.04	1SDA056973R1	14094.53
E6H5000	5000	LSI	1SDA056980R1	14936.22	1SDA056988R1	15888.26	1SDA056996R1	15188.33	1SDA057004R1	18783.61
		LSIG	1SDA056981R1	15250.73	1SDA056989R1	16202.78	1SDA056997R1	15502.86	1SDA057005R1	19098.13
E6H6300	6300	LSI	1SDA057012R1	19550.58	1SDA057020R1	20804.54	1SDA057028R1	20819.99	1SDA057036R1	24617.48
		LSIG	1SDA057013R1	19865.06	1SDA057021R1	21119.07	1SDA057029R1	21134.51	1SDA057037R1	24931.99

E6H 100kA PR123/P

Product Hierarchy 2900003

			Fixed breaker front connection				Moving Portion			
Model	Current (A) In	Protection	3 pole		4 pole		3 pole		4 pole	
			Order Code	Price	Order Code	Price	Order Code	Price	Order Code	Price
E6H4000	4000	LSI	1SDA056950R1	11353.45	1SDA056958R1	13144.68	1SDA056966R1	13094.43	1SDA056974R1	15461.88
		LSIG	1SDA056951R1	11638.29	1SDA056959R1	13429.56	1SDA056967R1	13379.25	1SDA056975R1	15746.73
E6H5000	5000	LSI	1SDA056982R1	16618.12	1SDA056990R1	17570.19	1SDA056998R1	16870.26	1SDA057006R1	20465.54
		LSIG	1SDA056983R1	16902.92	1SDA056991R1	17854.98	1SDA056999R1	17155.06	1SDA057007R1	20750.34
E6H6300	6300	LSI	1SDA057014R1	21232.46	1SDA057022R1	22486.47	1SDA057030R1	22501.87	1SDA057038R1	26299.36
		LSIG	1SDA057015R1	21517.30	1SDA057023R1	22771.28	1SDA057031R1	22786.70	1SDA057039R1	26584.20

Emax air circuit breakers

E4S/f 4th pole 100%



Ue 690V
Ratings @ 415V

	Icu	Ics	Icw	
			1s	3s
E4S/f	80kA	80kA	75kA	75kA
4th pole 100%				



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E4S/f 80kA PR121/P			Product Hierarchy 2900003			
			Fixed breaker front connection		Moving Portion	
			4 pole		4 pole	
Model	Current (A) In	Protection	Order Code	Price	Order Code	Price
E4S/f4000	4000	LSI	1SDA055537R1	10734.89	1SDA055545R1	14291.49
		LSIG	1SDA055538R1	11049.41	1SDA055546R1	14606.01

3

E4S/f 80kA PR122/P			Product Hierarchy 2900003			
			Fixed breaker front connection		Moving Portion	
			4 pole		4 pole	
Model	Current (A) In	Protection	Order Code	Price	Order Code	Price
E4S/f4000	4000	LSI	1SDA055540R1	10772.55	1SDA055548R1	14329.16
		LSIG	1SDA055541R1	11103.62	1SDA055549R1	14660.19

E4S/f 80kA PR123/P			Product Hierarchy 2900003			
			Fixed breaker front connection		Moving Portion	
			4 pole		4 pole	
Model	Current (A) In	Protection	Order Code	Price	Order Code	Price
E4S/f4000	4000	LSI	1SDA055542R1	12542.97	1SDA055550R1	16099.55
		LSIG	1SDA055543R1	12842.77	1SDA055551R1	16399.41

Emax air circuit breakers

E6H/f 4th pole 100%



Ue 690V
Ratings @ 415V

	Icu	Ics	Icw	
			1s	3s
E6H/f	100kA	100kA	100kA	85kA
4th pole 100%				



Full range of product and technical information place this part number in a search engine and download
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E6H/f 100kA PR121/P

Product Hierarchy 2900003

			Fixed breaker front connection		Moving Portion	
			4 pole		4 pole	
Model	Current (A) In	Protection	Order Code	Price	Order Code	Price
E6H/f4000	4000	LSI	1SDA055553R1	12738.64	1SDA055561R1	15324.14
		LSIG	1SDA055554R1	13053.16	1SDA055562R1	15638.68
E6H/f5000	5000	LSI	1SDA055569R1	17676.52	1SDA055577R1	20907.09
		LSIG	1SDA055570R1	17991.00	1SDA055578R1	21221.63
E6H/f6300	6300	LSI	1SDA055585R1	23162.05	1SDA055593R1	27416.44
		LSIG	1SDA055586R1	23476.56	1SDA055594R1	27730.97

E6H/f 100kA PR122/P

Product Hierarchy 2900003

			Fixed breaker front connection		Moving Portion	
			4 pole		4 pole	
Model	Current (A) In	Protection	Order Code	Price	Order Code	Price
E6H/f4000	4000	LSI	1SDA055556R1	12776.31	1SDA055564R1	15361.82
		LSIG	1SDA055557R1	13107.34	1SDA055565R1	15692.88
E6H/f5000	5000	LSI	1SDA055572R1	17714.13	1SDA055580R1	20944.77
		LSIG	1SDA055573R1	18045.22	1SDA055581R1	21275.84
E6H/f6300	6300	LSI	1SDA055588R1	23199.71	1SDA055596R1	27454.11
		LSIG	1SDA055589R1	23530.78	1SDA055597R1	27785.19

E6H/f 100kA PR123/P

Product Hierarchy 2900003

			Fixed breaker front connection		Moving Portion	
			4 pole		4 pole	
Model	Current (A) In	Protection	Order Code	Price	Order Code	Price
E6H/f4000	4000	LSI	1SDA055558R1	14546.70	1SDA055566R1	17132.24
		LSIG	1SDA055559R1	14846.53	1SDA055567R1	17432.03
E6H/f5000	5000	LSI	1SDA055574R1	19484.58	1SDA055582R1	22715.21
		LSIG	1SDA055575R1	19784.36	1SDA055583R1	23015.00
E6H/f6300	6300	LSI	1SDA055590R1	24970.14	1SDA055598R1	29224.55
		LSIG	1SDA055591R1	25269.94	1SDA055599R1	29524.35

Emax air circuit breakers E1-E3 switch disconnectors



Ue 690V
Ratings @ 415V

	Icm	Icw	
		1s	3s
E1N/MS	105kA	50kA	36kA
E2N/MS	121kA	55kA	42kA
E2S/MS	143kA	65kA	50kA
E3S/MS	165kA	65kA	50kA
4th pole	100%		



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E1N/MS 105kA

		Product Hierarchy 2900003							
		Fixed breaker front connection				Moving Portion			
Model	Current (A) In	3 pole		4 pole		3 pole		4 pole	
		Order Code	Price	Order Code	Price	Order Code	Price	Order Code	Price
E1N/MS800	800	1SDA058933R1	1792.45	1SDA058934R1	2276.41	1SDA058941R1	1882.10	1SDA058942R1	2390.26
E1N/MS1250	1250	1SDA058937R1	1946.17	1SDA058938R1	2471.65	1SDA058945R1	2043.50	1SDA058946R1	2595.21
E1N/MS1600	1600	1SDA058861R1	1988.56	1SDA058862R1	2525.45	1SDA058863R1	2087.99	1SDA058864R1	2651.74

E2N/MS 121kA

		Product Hierarchy 2900003							
		Fixed breaker front connection				Moving Portion			
Model	Current (A) In	3 pole		4 pole		3 pole		4 pole	
		Order Code	Price	Order Code	Price	Order Code	Price	Order Code	Price
E2N/MS1250	1250	1SDA058947R1	2126.02	1SDA058948R1	2700.08	1SDA058957R1	2104.77	1SDA058958R1	2673.08
E2N/MS1600	1600	1SDA058951R1	2169.12	1SDA058952R1	2754.82	1SDA058961R1	2210.60	1SDA058962R1	2807.47
E2N/MS1600	2000	1SDA058955R1	3163.62	1SDA058956R1	4017.82	1SDA058965R1	3321.81	1SDA058966R1	4218.70

E2S/MS 143kA

		Product Hierarchy 2900003							
		Fixed breaker front connection				Moving Portion			
Model	Current (A) In	3 pole		4 pole		3 pole		4 pole	
		Order Code	Price	Order Code	Price	Order Code	Price	Order Code	Price
E2S/MS1250	1250	1SDA058865R1	2665.92	1SDA058866R1	3399.62	1SDA058867R1	2883.81	1SDA058868R1	2784.32
E2S/MS1600	1600	1SDA058869R1	2766.76	1SDA058870R1	3552.78	1SDA058871R1	3203.38	1SDA058872R1	2922.81
E2S/MS2000	2000	1SDA058873R1	3603.74	1SDA058874R1	4626.53	1SDA058875R1	3445.94	1SDA058876R1	5173.34

E3N/MS 143kA

		Product Hierarchy 2900003							
		Fixed breaker front connection				Moving Portion			
Model	Current (A) In	3 pole		4 pole		3 pole		4 pole	
		Order Code	Price	Order Code	Price	Order Code	Price	Order Code	Price
E3N/MS2500	2500	1SDA058973R1	3814.22	1SDA058974R1	4844.07	1SDA058987R1	4004.94	1SDA058988R1	5086.26
E3N/MS3200	3200	1SDA058977R1	5514.53	1SDA058978R1	6686.93	1SDA058991R1	5528.55	1SDA058992R1	7021.28

E3S/MS 165kA

		Product Hierarchy 2900003							
		Fixed breaker front connection				Moving Portion			
Model	Current (A) In	3 pole		4 pole		3 pole		4 pole	
		Order Code	Price	Order Code	Price	Order Code	Price	Order Code	Price
E3S/MS1250	1250	1SDA058967R1	2665.92	1SDA058968R1	3399.62	1SDA058981R1	2795.55	1SDA058982R1	3406.84
E3S/MS1600	1600	1SDA058969R1	2766.76	1SDA058970R1	3552.78	1SDA058983R1	3138.01	1SDA058984R1	4089.68
E3S/MS2000	2000	1SDA058971R1	3603.74	1SDA058972R1	4720.96	1SDA058985R1	4177.46	1SDA058986R1	5278.93
E3S/MS2500	2500	1SDA058975R1	4426.27	1SDA058976R1	5814.87	1SDA058989R1	4150.34	1SDA058990R1	5270.93
E3S/MS3200	3200	1SDA058979R1	5447.30	1SDA058980R1	7829.66	1SDA058993R1	7971.06	1SDA058994R1	9735.02

Emax air circuit breakers E4-6 switch disconnectors



Ue 690V
Ratings @ 415V

	Icm	Icw	
		1s	3s
E4S/MS	165kA	75kA	75kA
E4H/MS	220kA	100kA	75kA
<hr/>			
E6H/MS	220kA	100kA	85kA
<hr/>			
4th pole 50%			



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E4S/MS 165kA

Product Hierarchy 2900003

		Fixed breaker front connection				Moving Portion			
		3 pole		4 pole		3 pole		4 pole	
Model	Current (A) In	Order Code	Price	Order Code	Price	Order Code	Price	Order Code	Price
E4S/MS4000	4000	1SDA058997R1	8556.55	1SDA058998R1	8706.39	1SDA059003R1	9688.16	1SDA059004R1	12147.20

E4H/MS 220kA

Product Hierarchy 2900003

		Fixed breaker front connection				Moving Portion			
		3 pole		4 pole		3 pole		4 pole	
Model	Current (A) In	Order Code	Price	Order Code	Price	Order Code	Price	Order Code	Price
E4H/MS1250	3200	1SDA058995R1	6550.28	1SDA058996R1	7885.60	1SDA059001R1	7434.09	1SDA059002R1	9441.29
E4H/MS1600	4000	1SDA058999R1	8905.79	1SDA059000R1	10400.24	1SDA059005R1	10512.70	1SDA059006R1	12876.04

E6H/MS 220kA

Product Hierarchy 2900003

		Fixed breaker front connection				Moving Portion			
		3 pole		4 pole		3 pole		4 pole	
Model	Current (A) In	Order Code	Price	Order Code	Price	Order Code	Price	Order Code	Price
E6H/MS4000	4000	1SDA058905R1	9497.92	1SDA058906R1	11741.67	1SDA058907R1	11543.88	1SDA058908R1	14259.79
E6H/MS5000	5000	1SDA059007R1	15228.05	1SDA059008R1	16438.36	1SDA059011R1	14580.89	1SDA059012R1	18805.39
E6H/MS6300	6300	1SDA059009R1	19121.36	1SDA059010R1	21660.02	1SDA059013R1	21416.29	1SDA059014R1	24884.19

Emax air circuit breakers

E4f-6f switch disconnectors 4th pole 100%



Ue 690V
Ratings @ 415V

	lcm	lcv	
		1s	3s
E4S/f/MS	165kA	75kA	75kA
E4H/f/MS	220kA	100kA	75kA
E6H/f/MS	220kA	100kA	85kA
4th pole 100%			



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E4S/f/MS 165kA		Product Hierarchy 2900003			
		Fixed breaker front connection		Moving Portion	
Model	Current (A) In	4 pole		4 pole	
		Order Code	Price	Order Code	Price
E4S/f/MS4000	4000	1SDA059015R1	10591.97	1SDA059016R1	12876.04

E4H/f/MS 220kA		Product Hierarchy 2900003			
		Fixed breaker front connection		Moving Portion	
Model	Current (A) In	4 pole		4 pole	
		Order Code	Price	Order Code	Price
E4H/f/MS3200	3200	1SDA058901R1	8358.72	1SDA058902R1	10007.77
E4H/f/MS4000	4000	1SDA058903R1	11024.25	1SDA058904R1	13003.12

E6H/f/MS 220kA		Product Hierarchy 2900003			
		Fixed breaker front connection		Moving Portion	
Model	Current (A) In	4 pole		4 pole	
		Order Code	Price	Order Code	Price
E6H/f/MS4000	4000	1SDA058909R1	12446.18	1SDA058910R1	15115.38
E6H/f/MS5000	5000	1SDA059017R1	17424.67	1SDA059019R1	21408.38
E6H/f/MS6300	6300	1SDA059018R1	22959.59	1SDA059020R1	28570.33

3

Emax air circuit breakers

FP fixed parts X1, E1 - E3

3

X1 withdrawable (W) - FP	Product Hierarchy 2900003			
	3 pole		4 pole	
	Order Code	Price	Order Code	Price
EF-EE	1SDA062045R1	667.38	1SDA062049R1	867.61
HR-VR	1SDA062048R1	1022.24	1SDA062048R1	1022.24

E1 withdrawable (W) - FP	Product Hierarchy 2900003			
	3 pole		4 pole	
	Order Code	Price	Order Code	Price
HR	1SDA059666R1	604.64	1SDA059762R1	755.78
VR	1SDA059672R1	663.60	1SDA059770R1	829.51
F	1SDA059678R1	824.52	1SDA059778R1	1255.02
FL	1SDA059684R1	824.52	1SDA059786R1	1255.02
HR-VR	1SDA059690R1	695.17	1SDA059794R1	792.66
VR-HR	1SDA059708R1	695.17	1SDA059818R1	792.66

E2 withdrawable (W) - FP	Product Hierarchy 2900003			
	3 pole		4 pole	
	Order Code	Price	Order Code	Price
HR	1SDA059667R1	693.16	1SDA059763R1	866.46
VR	1SDA059673R1	755.08	1SDA059771R1	943.83
F	1SDA059679R1	929.62	1SDA059779R1	1190.57
FL	1SDA059685R1	929.62	1SDA059787R1	1190.57
HR-VR	1SDA059691R1	793.81	1SDA059795R1	905.11
VR-HR	1SDA059709R1	724.10	1SDA059819R1	905.11

E2S withdrawable (W) - FP	Product Hierarchy 2900003			
	3 pole		4 pole	
	Order Code	Price	Order Code	Price
HR	1SDA059668R1	700.06	1SDA059764R1	875.10
VR	1SDA059674R1	762.62	1SDA059772R1	953.27
F	1SDA059680R1	938.93	1SDA059780R1	1202.48
FL	1SDA059686R1	938.93	1SDA059788R1	1202.48
HR-VR	1SDA059692R1	801.74	1SDA059796R1	1212.73
VR-HR	1SDA059710R1	731.36	1SDA059820R1	1212.74

E3 withdrawable (W) - FP	Product Hierarchy 2900003			
	3 pole		4 pole	
	Order Code	Price	Order Code	Price
HR	1SDA059669R1	803.75	1SDA059765R1	1036.85
VR	1SDA059675R1	902.22	1SDA059773R1	1163.87
F	1SDA059681R1	1085.91	1SDA059781R1	2750.29
FL	1SDA059687R1	1085.91	1SDA059789R1	2750.29
HR-VR	1SDA059693R1	853.02	1SDA059797R1	1100.40
VR-HR	1SDA059711R1	882.18	1SDA059821R1	1100.40



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Emax air circuit breakers

FP fixed parts E4 - E6 E4/f - E6/f

E4 withdrawable (W) - FP	Product Hierarchy 2900003			
	3 pole		4 pole	
	Order Code	Price	Order Code	Price
HR	1SDA059670R1	1386.51	1SDA059766R1	1788.59
VR	1SDA059676R1	1607.56	1SDA059774R1	1948.43
F	1SDA059682R1	2300.92	1SDA059782R1	3274.40
FL	1SDA059688R1	2300.92	1SDA059790R1	3274.40
HR-VR	1SDA059694R1	1587.88	1SDA059798R1	2474.76
VR-HR	1SDA059712R1	1587.88	1SDA059822R1	2593.56

E6 withdrawable (W) - FP	Product Hierarchy 2900003			
	3 pole		4 pole	
	Order Code	Price	Order Code	Price
HR	1SDA059671R1	1667.42	1SDA059768R1	2150.96
VR	1SDA059677R1	2031.70	1SDA059776R1	2560.74
F	1SDA059683R1	2999.37	1SDA059784R1	3818.73
FL	1SDA059689R1	2999.37	1SDA059792R1	3818.73
HR-VR	1SDA059695R1	1929.83	1SDA059800R1	2428.34
VR-HR	1SDA059713R1	1929.81	1SDA059824R1	2428.34

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E4/f withdrawable (W) - FP	Product Hierarchy 2900003	
	4 pole	
	Order Code	Price
HR	1SDA059767R1	1982.70
VR	1SDA059775R1	3438.13
F	1SDA059783R1	3438.13
FL	1SDA059791R1	3438.13
HR-VR	1SDA059799R1	2071.27
VR-HR	1SDA059823R1	2071.27

E6/f withdrawable (W) - FP	Product Hierarchy 2900003	
	4 pole	
	Order Code	Price
HR	1SDA059769R1	2384.42
VR	1SDA059777R1	2688.78
F	1SDA059785R1	4009.67
FL	1SDA059793R1	4009.67
HR-VR	1SDA059801R1	2549.75
VR-HR	1SDA059825R1	2549.75



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Emax air circuit breakers

Accessories

3

Accessories	Product Hierarchy 2900003	
	Order Code	Price
Terminal for fixed parts		
Kit EF FP T7-T7M-X1 3pcs	1SDA062171R1	89.16
Kit HR/VR FP T7-T7M-X1 3pcs	1SDA063089R1	89.16
Kit MP T7-T7M-X1 W 4p	1SDA062163R1	211.26
Kit EF FP T7-T7M-X1 4pcs	1SDA062172R1	118.84
Kit HR/VR FP T7-T7M-X1 4pcs	1SDA063090R1	118.84
Kit EF T7-T7M-X1 3pcs	1SDA063103R1	58.74
Kit FC CuAl 4x240mm ² T7-T7M-X1 1250 3pcs	1SDA063112R1	112.53
Kit F T7-T7M-X1 3pcs	1SDA063099R1	14.34
Kit ES T7-T7M-X1 3pcs UPP	1SDA063107R1	274.30
Kit ES T7-T7M-X1 3pcs LOW	1SDA063108R1	274.30
Kit R T7-T7M-X1 3pcs	1SDA063116R1	
Kit HR T7-T7M-X1 3pcs	1SDA063120R1	59.50
Kit VR T7-T7M-X1 3pcs	1SDA063124R1	59.50
Kit EF T7-T7M-X1 4pcs	1SDA063104R1	76.39
Kit FC CuAl 4x240mm ² T7-T7M-X1 1250 4pcs	1SDA063113R1	155.03
Kit ES T7-T7M-X1 4pcs	1SDA063091R1	26.16
Kit R T7-T7M-X1 4pcs	1SDA063117R1	92.79
Kit HR T7-T7M-X1 4pcs	1SDA063121R1	77.31
Kit VR T7-T7M-X1 4pcs	1SDA063125R1	77.32
High terminal covers		
HTC T7-T7M-X1 F 3p 2pcs	1SDA063091R1	26.16
HTC T7-T7M-X1 F 4p 2pcs	1SDA063092R1	33.29
Low terminal covers		
LTC T7-T7M-X1 F 3p 2pcs	1SDA063093R1	22.14
LTC T7-T7M-X1 F 4p 2pcs	1SDA063094R1	28.16
Sliding Contact Blocks		
Left sliding contact MP C.BR.T7-T7M-X1	1SDA062164R1	15.42
Central sliding contact MP C.BR.T7-T7M-X1	1SDA062165R1	16.98
Right sliding contact MP C.BR.T7-T7M-X1	1SDA062166R1	15.42
Left sliding contact FP C.BR.T7M-X1	1SDA062167R1	48.66
Central sliding contact FP C.BR.T7-T7M-X1	1SDA062168R1	53.51
Right sliding contact FP C.BR.T7M-X1	1SDA062169R1	48.66
Left hand lock	Central lock	Right hand lock
Spring charger motor	PR331	Auxiliary contacts
"Closed springs charged" contact	PR332	Shunt opening release
"Ready to close" contact		Shunt closing release
Release trip signalling		Under voltage release

Emax air circuit breakers

Accessories



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Electrical Accessories

Shunt opening/closing release SOR/SCR

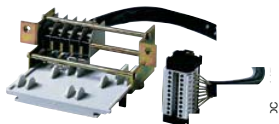
Product Hierarchy 2900003

Breaker type	Description	Order Code	Price
E1 - E6	24V DC	1SDA038286R1	92.25
	30V	1SDA038287R1	92.25
	48V	1SDA038288R1	92.25
	60V	1SDA038289R1	92.25
	110/120V	1SDA038290R1	92.25
	120/127V	1SDA038291R1	92.25
	220/240V	1SDA038292R1	92.25
	240/250V	1SDA038293R1	92.25
	380/400V	1SDA038294R1	156.84
440/480V AC	1SDA038295R1	156.84	

Undervoltage Releases UVR

X1	UVR T7-T7M-X1 24Va.c./d.c.	1SDA062087R1	110.51
	UVR T7-T7M-X1 30Va.c./d.c.	1SDA062088R1	110.52
	UVR T7-T7M-X1 48Va.c./d.c.	1SDA062089R1	110.52
	UVR T7-T7M-X1 60Va.c./d.c.	1SDA062090R1	110.52
	UVR T7-T7M-X1 110...120Va.c./d.c.	1SDA062091R1	110.51
	UVR T7-T7M-X1 240...250Va.c./d.c.	1SDA062092R1	110.51
	UVR T7-T7M-X1 380...400Va.c.	1SDA062093R1	110.51
	UVR T7-T7M-X1 415...440Va.c.	1SDA062094R1	110.52

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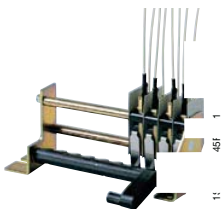


X

E1 - E6	24V DC	1SDA038306R1	153.77
	30V	1SDA038307R1	153.77
	48V	1SDA038308R1	153.77
	60V	1SDA038309R1	
	110/120V	1SDA038310R1	153.77
	120/127V	1SDA038311R1	153.77
	220/240V	1SDA038312R1	153.77
	240/250V	1SDA038313R1	153.77
	380/400V	1SDA038314R1	184.51
	440/480V AC	1SDA038315R1	184.51

Time delayed under voltage release

E1/6-T7-X1-T8	24/30V	1SDA038316R1	180.33
	48V	1SDA038317R1	180.33
	60V	1SDA038318R1	POA
	110/127V	1SDA038319R1	180.33
	220/250V	1SDA038320R1	180.33
E1 - E6	24V DC	1SDA038316R1	180.33
	48V	1SDA038317R1	180.33
	60V	1SDA038318R1	POA
	110/120V	1SDA038319R1	180.33
	220/250V	1SDA038320R1	180.33



T

Motor operator

X1	24...30Vac/dc	1SDA062113R1	323.95
	48...60Vac/dc	1SDA062114R1	339.51
	100...130Vac/dc	1SDA062115R1	339.50
	220...250Vac/dc	1SDA062116R1	339.50
	380...415Vac	1SDA062117R1	339.50
E1 - E6	24/30V DC	1SDA038321R1	559.08
	48/60V	1SDA038322R1	559.08
	100/130V	1SDA038323R1	559.08
	220/250V	1SDA038324R1	559.08



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Emax air circuit breakers

Accessories

3

Electrical Accessories cont.

Auxiliary contacts		Product Hierarchy 2900003	
Breaker type	Description	Order Code	Price
E1-E6	10 open/closed contacts	1SDA038327R1	303.98
Automatic C/B	10 open/closed contacts 5NO+5NC	1SDA058266R1	303.98
E1-E6 Non-auto	4 open/closed contacts	1SDA038326R1	121.63

Current sensor for neural conductor

E1 - E2	Iu N = 2000A	1SDA058191R1	381.82
E3	Iu N = 3200A	1SDA058218R1	472.28
E4/f	Iu N = 3200A	1SDA058216R1	794.11
E6/f	Iu N = 6300A	1SDA058220R1	982.39

Toroidal coil for main power supply earthing conductor

E1 - E6		1SDA059145R1	975.72
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PR120/K signalling modules

E1 - E6	4 output with independant terminals	1SDA058255R1	162.70
	4 output with + 1 input with common terminals	1SDA058256R1	154.58

PR120/V measuring modules

E1 - E6		1SDA058252R1	1017.84
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Automatic transfer modules

E1 - E6	ATS021 DISP.COMMUT.AUT.S/D MULTI TENS	1SDA065523R1	769.20
	ATS022 DISP.COMMUT.AUT.C/D CONT.AV/M/TEN	1SDA065524R1	1468.49

Communication modules

E1 - E6	PR120/D-M communication module	1SDA058254R1	362.30
	PR120/D-BT bluetooth	1SDA058257R1	559.46
	BT030-USB bluetooth	1SDA058259R1	522.65

Modules for PR33_ electronic trip units

T4..T7-T8 X1-E1/6N	HMI030 display unit	1SDA063143R1	382.30
T7	PR330/V MEASURING MOD.INT.SOC.x PR332	1SDA063144R1	427.72
T7-T7M-X1-T8	PR330/D-M COMM.MOD.xPR332-3	1SDA063145R1	329.13
T7-T7M-X1	PR330/R DRIVING UNIT x PR332-3	1SDA063146R1	51.27
E1/6-T4,T8-X1	BT030-USB WIRE.EXT.MOD.BLU.	1SDA058259R1	522.65
T7-T7M-X1	SOCKET INT.TENS.PR332 x EXT.CO	1SDA063573R1	128.17

Test configurator unit

XT2-XT4	Ekip TT	1SDA066988R1	149.18
	Ekip T&P	1SDA066989R1	2773.39

Electrical trip indicator

E1 - E6	-	1SDA058260R1	38.18
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Electrical trip reset

T7M-X1	110..130Vac/dc	1SDA062118R1	120.08
	200..240Vac/dc	1SDA062119R1	120.08
E1 - E6	220/250V	1SDA058261R1	24.20
	100/130V	1SDA058262R1	24.20
	24/30V	1SDA058263R1	24.20

Position signalling contacts

E1 - E6	5 contacts	1SDA038361R1	115.44
E1 - E2		1SDA038360R1	212.86
E3	10 contacts	1SDA043468R1	265.48
E4 - E6		1SDA043470R1	265.48



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Emax air circuit breakers

Accessories

Electrical Accessories cont.

Auxiliary contacts (open/close)		Product Hierarchy 2900003	
Breaker type	Description	Order Code	Price
X1	2Q 400Va.c.	1SDA062102R1	28.04
	2Q 24Vd.c.	1SDA062101R1	28.04

Auxiliary contacts signalling spring charged

X1	SC 24Vd.c.	1SDA062106R1	173.59
	SC T7M-X1 250Vac/dc	1SDA062107R1	18.09

Auxiliary position contacts

X1	AUP 24Vd.c. (2INS+2TEST+2EXT)	1SDA062110R1	82.67
	AUP 250Va.c. (2INS+2TEST+2EXT)	1SDA062111R1	82.67

Mechanical Accessories

Mechanical operation counter

X1		1SDA062160R1	82.24
E1 - E6		1SDA038345R1	82.45



Transparent pushbutton covers

X1	PUSHBUTTONS TRANS. PROTECTION T7M-X1	1SDA062132R1	35.85
	PUSHBUTTONS TRANS. PROTECTION IND.T7M-X1	1SDA062133R1	35.85
X1	IP54 Protection	1SDA062161R1	67.16

Lock in open position

E1 - E6	for 1 circuit breaker (different keys)	1SDA058271R1	62.40
	for groups circuit breakers (same key)	1SDA058270R1	62.40
	Padlock 4mm	1SDA038351R1	36.34
	Padlock 6mm	1SDA064504R1	174.89

Padlock lever

X1	PLL	1SDA062152R1	51.27
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Key lock in open position on the circuit breaker - KLC

X1	KLC Key lock service operation.	1SDA063562R1	61.38
	KLC-S Key lock EQ.N.20005	1SDA063563R1	61.38
	KLC Key lock Castell	1SDA062147R1	96.45
	KLC Key lock Kirk	1SDA062148R1	96.46
	KLC Key lock Ronis	1SDA062149R1	48.22

Circuit breaker lock in test and racked positions

X1	KLF-D-FP Key lock SEV.CON/ISOL	1SDA062153R1	18.62
	KLF-S-FP Key lock 20005 CON/IS	1SDA062154R1	18.63
E1 - E6	for 1 circuit breaker (different keys)	1SDA058277R1	62.40
	for groups circuit breakers (same key)	1SDA058278R1	62.40
	padlock for shutters	1SDA038363R1	39.28
	Castell lock ref PDS 01388 adapter	1SDA058275R1	62.40
	Protective cover for opening and closing pushbutton	1SDA038343R1	25.33



Full range of product and technical information place this part number in a search engine and download

1SDC20009D0203

3

Emax air circuit breakers

Accessories

Mechanical Accessories cont.

Accessory for lock only in racked-out position

Product Hierarchy 2900003

Breaker type	Description	Order Code	Price
T7-T7M-X1		1SDA062158R1	14.28

Interlocks

T7-T7M-X1	Kit cable mech interlock HR/VR	1SDA062127R1	156.34
	Plate mech interlock, wall fixed	1SDA062129R1	160.45
	Plate mech interlock, floor fixed	1SDA062130R1	160.45
	Plate mech interlock with FP	1SDA062131R1	160.45
E1 - E2	*3 pole & 4 pole	1SDA038366R1	133.40
E3		1SDA038367R1	133.40
E4	*3 pole	1SDA038368R1	133.40
	*4 pole	1SDA043466R1	133.40
E6	*3 pole	1SDA043466R1	133.40
	*4 pole	1SDA038369R1	133.40
E1 - E6	**Horizontal 2 cables -A-	1SDA038329R1	166.76
	**Horizontal 3 cables -B-	1SDA038330R1	166.75
	**Horizontal 3 cables -C-	1SDA038331R1	248.52
	**Horizontal 3 cables -D-	1SDA038332R1	166.75
	**Vertical 2 cables -A-	1SDA038333R1	166.75
	**Vertical 3 cables -B-	1SDA038334R1	166.75
	**Vertical 3 cables -C-	1SDA038335R1	166.75
	**Vertical 3 cables -D-	1SDA038336R1	166.75
	**Plate for interlocking fixed circuit breakers	1SDA038358R1	56.88
	*Accessory for interlock withdrawable fixed portion -ABC	1SDA038364R1	191.93
	*Accessory for interlock withdrawable fixed portion -C	1SDA038365R1	191.93

* To be ordered with each fixed circuit breaker or moving part of withdrawable circuit breaker

** To be ordered only once for each combination of interlocked circuit breakers

Switchgear



Switch disconnectors

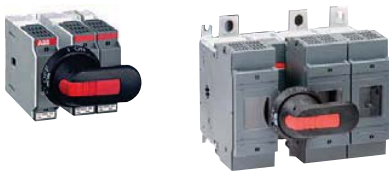
Overview4/2
 OT16...3150 disconnectors.....4/6
 OT16...3150 accessories4/10



New
OTM 40

Changeover & transfer switches

Overview4/24
 OT...C16...2500 manual changeover switches.....4/28
 OTM40...2500 motorised changeover switches4/31
 OT160...1600 automatic changeover switches.....4/38
 OT & OTM16...2500 accessories4/41



Switch fuses

Overview4/46
 OS16...1250 switch fuses4/50
 OS16...1250 accessories4/58
 BS88 fuses.....4/67








Slimline switch fuses

Slimline switch fuses4/69



Cam switches

Cam switches open type.....4/70

<p>OT switch disconnectors</p>	<p>Switch fuses</p>	<p>Changeover switches</p>
 <p>Full range of product and technical information place this part number in a search engine and download</p> <p>1SEC301001C0201</p>	 <p>Full range of product and technical information place this part number in a search engine and download</p> <p>1SCC311013C0201</p>	 <p>Full range of product and technical information place this part number in a search engine and download</p> <p>1SCC303003C0201</p>
<p>XR SlimLine switch fuses</p>	<p>Cam switches</p>	
 <p>Full range of product and technical information place this part number in a search engine and download</p> <p>1SEC311001C0201</p>	 <p>Full range of product and technical information place this part number in a search engine and download</p> <p>1SCC302003C0201</p>	

OT switch disconnectors 16 ... 3150 A 690V

Manual operation

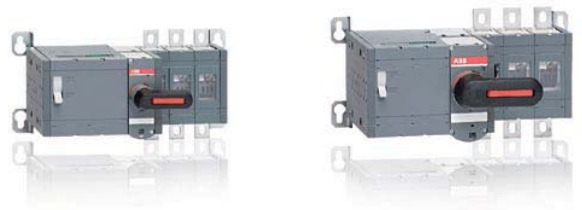


4

IEC	OT16F	OT63F	OT100F	OT160E	OT160EV	OT315E
	OT25F	OT80F	OT125F		OT200E	OT400E
	OT40F				OT250E	
UL	OT16F	OT63F	OT30F	OT160E		OT200U
	OT25F	OT80F	OT60F			
	OT40F		OT100F			

Switch size	16 25 40	63 80	30 60 100 125	160	160 200 250	200	315 400
IEC I_n [A]	25 32 40	63 80	115 125	200	200 200 250		315 400
I_g /AC22A ? 415V [A]	16 25 40	63 80	100 125	160	200 200 250		315 400
I_g /AC23A ? 415V [A]	16 20 23	45 75	80 90	135	200 200 250		315 400
UL Ampere rating [A]	20 30 40	60 80	30 60 100	100		200	

Motor operation



IEC	OTM160E	OTM315E
	OTM200E	OTM400E
	OTM250E	

Switch size [A]	160 200 250	315 400
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Accessories

Optional handles

Extended shafts

Legend plates

Auxiliary contacts

Fourth poles

N & PE terminals

Terminal shrouds

Connecting accessories

Conversion kits

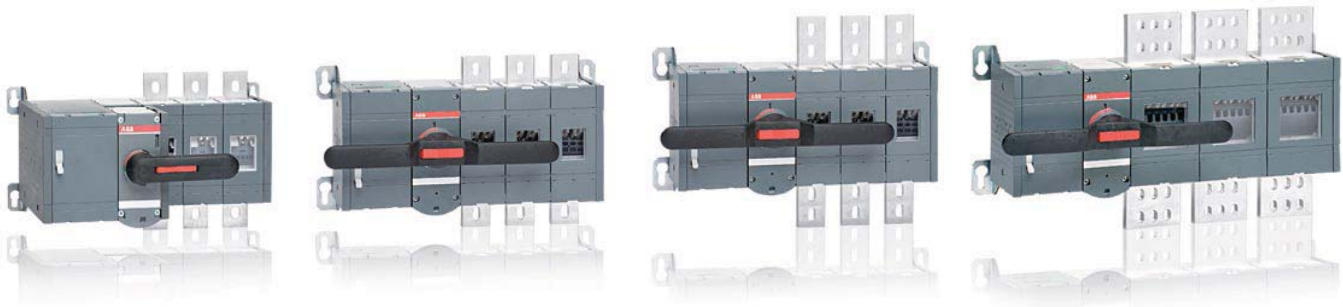
Locking accessories

Motor operators



	OT630E	OT1000E	OT2000E	OETL3150K
	OT800E	OT1250E	OT2500E	
		OT1600E		
OT400U	OT600U	OT800U		OETL-NF1600
		OT1200U		OETL-NF2000

400	600 630 800	800 1000 1200 1250 1600	2000 2500	1600 2000 3150
	630 800	1000 1250 1600	2000 2500	3150
	630 800	1000 1250 1600	2000 2500	
	630 800	1000 1250 1600		
400	600	800 1200		1600 2000



	OTM630E	OTM1000E	OTM1600E	OTM2000E
	OTM800E	OTM1250E		OTM2500E

630 800	1000 1250	1600	2000 2500
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Enhanced range of switch-disconnectors

From 16 to 3150 A, 690 V

4

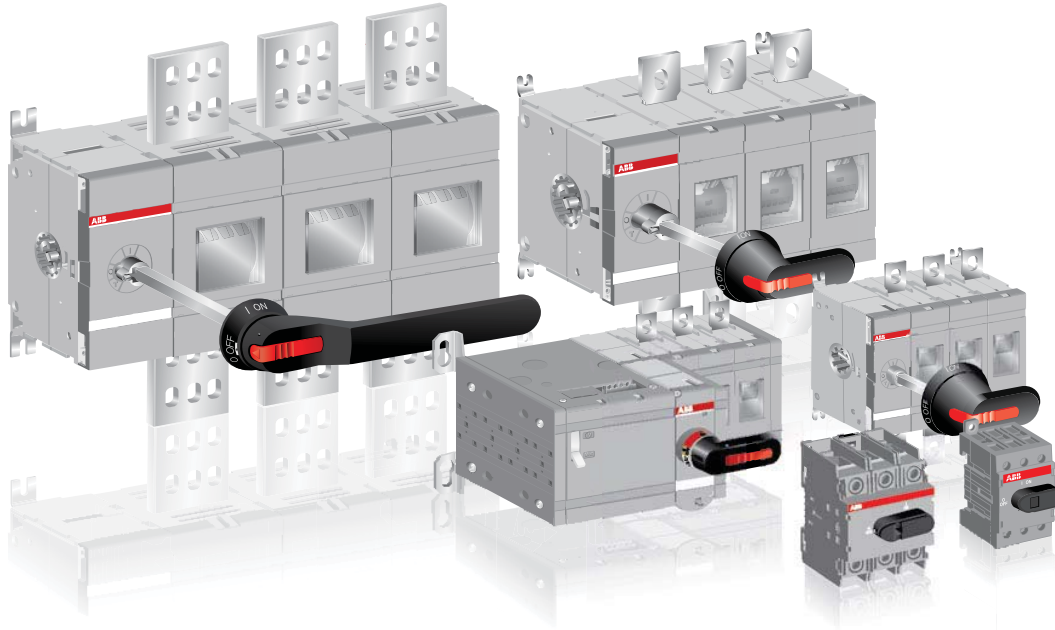


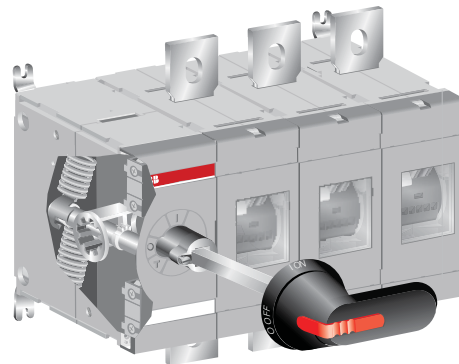
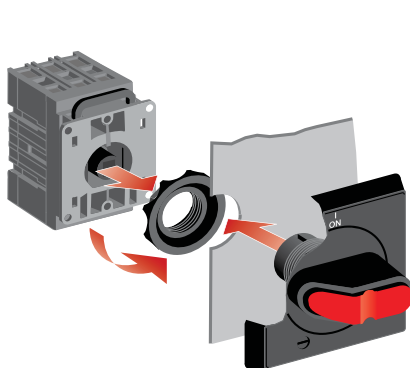
ABB switch-disconnectors are suitable for diverse applications, in motor control centers, in switchboards and as main switches in various equipment and machines. From single to 8-poles front operated switches with pistol handle or direct mounted handle. For installation in enclosures, side operated switches, switches with wide phase distance and combination switches for change-over, bypass, reversing etc.

- Mountable on DIN rails or base plates and on the door, both by snap-on and screw fitting
- Snap-on mounting of accessories
- Motorized switch-disconnectors OTM are suitable for remote control

The most compact disconnect (isolation) solution

Optimally designed, the OT switch-disconnector offers an advanced and compact solution, providing you with added value.

- The new double-sided spring construction in combination with fewer components made an innovative and compact design of the operation mechanism possible.
- The uniquely short current path enabled a small-sized contact construction.



ABB's switch-disconnector range meets disconnect and isolation requirements more effectively than ever, maximizing the benefits and optimizing your use of assets.

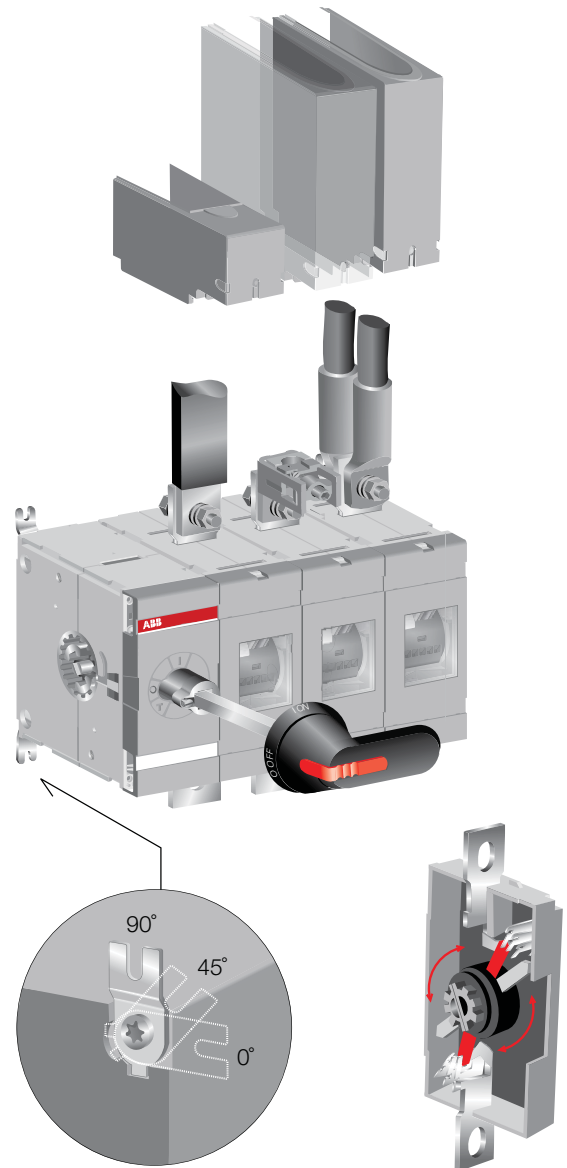
High performance despite the small size

The powerful construction, with its quick-make and quick-break operation features and two contact points instead of one, adds value to and enhances the performance of the switch-disconnectors.

- The OT range offers you improved power ratings. Full I_{th} ratings can be used both in open air and in enclosures, without having to derate or enlarge the box.
- User-friendly and flexible, the OT switch-disconnector provides you with full AC-23A current ratings for all the voltages, even up to 690 V.

The OT switch-disconnector is easy to use and easy to install according to your choice: horizontally or vertically - even in the ceiling! The adjustable mounting feet allow both top and side mounting of the switch.

ABB's switch-disconnector range meets disconnect and isolation requirements more effectively than ever, maximizing the benefits and optimizing your use of assets.



Switch disconnectors

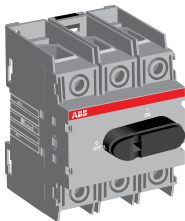
OT16 ...160 base mounted



OT16...32E3



OT 45...63E3



OT 100...125E3

4

Front operated switch-disconnectors, base and DIN-rail mounting OT 16...160

Including protected terminal clamps, IP20. Handle and shaft have to be ordered separately.

No of Poles	I_{th} (open) [A]	Cable Cross Section mm ²	Operational Currents AC22A/AC23A 400V	Shaft Diameter mm	Product Hierarchy 2200003		
					Order Code	Price	
3	25	0.75...10	16/16	6	OT16F3	13.46	
4					OT16F4N2	17.59	
3	32		25/20		OT25F3	14.42	
4					OT25F4N2	18.68	
3	40		40/23		OT40F3	16.37	
4					OT40F4N2	21.02	
3	80	1.5...35	80/75		OT63F3	24.79	
4					OT63F4N2	30.42	
3	100		80/75		OT80F3	27.01	
4					OT80F4N2	35.46	
3	115		10...70		100/80	OT100F3	46.36
4						OT100F4N2	56.39
3	125	125/90		OT125F3	63.43		
4				OT125F4N2	78.70		
3	160	200/135		200/135	OT160E3	102.78	
4					OT160E4	137.04	

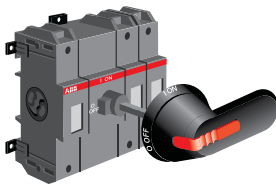
Front operated, 6- and 8- pole switch-disconnectors

Including protected terminal clamps, IP20

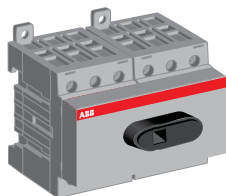
Suitable Shaft Diameter mm	I_{th} (open) [A]	Cable Cross Section [mm ²]	Operational Currents AC22A/AC23A 400V	Product Hierarchy 2200003	
				Order Code	Price
6-pole					
6	25	0.75...10	16/16	OT16F6	40.40
6	32		25/20	OT25F6	42.78
6	40		40/23	OT40F6	46.76
6	63	1.5...35	63/45	OT63F6	63.15
6	80		80/75	OT80F6	93.51
6	115		100/80	OT100F6	143.42
6	125	10...70	125/90	OT125F6	155.99
8-pole					
8	25	0.75...10	16/16	OT16F8	49.23
8	32		25/20	OT25F8	55.28
8	40		40/23	OT40F8	61.16
8	63	1.5...35	63/45	OT63F8	75.94
8	80		80/75	OT80F8	103.24
8	115		100/80	OT100F8	174.00
8	125	10...70	125/90	OT125F8	202.07



OT125E3



OT 160E3



OT 16 - 40F6



Full range of product and technical information place this part number in a search engine and download
1SCC301001C0201

Switch disconnectors

OT200 ... 800 base mounted

Front operated switch-disconnectors, with pistol handle

OT 200...800E

Including a black ON-OFF plastic handle and shaft as standard. The handle is IP65 protected, padlockable in the OFF-position and with door interlock in the ON-position. The shaft is adjustable for a range of installation depths.



OT160EV03P



OT200E04P



OT315E03P



OT315E04P



OT630E04P

No of Poles	I_{th} (open) [A]	Operational Currents AC22A/AC23A 400V	Product Hierarchy 2200003	
			Order Code	Price
3	200	200/160	OT160EV03P	98.80
4			OT160EV04P	130.00
3			OT160EV12P	98.80
4			OT160EV22P	130.00
3	200	200/200	OT200E03P	104.06
4			OT200E04P	120.26
3			OT200E12P	106.29
4			OT200E22P	122.54
3	250	250/250	OT250E03P	161.14
4			OT250E04P	180.64
3			OT250E12P	151.51
4			OT250E22P	184.15
3	315	315/315	OT315E03P	176.43
4			OT315E04P	233.46
3			OT315E12P	167.98
4			OT315E22P	213.41
3	400	400/400	OT400E03P	205.85
4			OT400E04P	235.61
3			OT400E12P	210.03
4			OT400E22P	240.34
3	630	630/630	OT630E03P	362.97
3+N			OT630E03N3P	361.62
4			OT630E04P	413.99
3			OT630E12P	338.07
4	OT630E22P	413.99		
3	800	800/800	OT800E03P	503.27
3+N			OT800E03N3P	531.67
4			OT800E04P	568.19
3			OT800E12P	503.27
4			OT800E22P	531.67

4

Shafts & handles included as standard

Suitable for switches	Included shaft	Included handle	Included terminal bolts
OT160EV...250_P	OXP6X210	OHB65J6	M 8x25
OT315...400_P	OXP12X185	OHB95J12	M 10x30
OT630...800_P	OXP12X185	OHB125J12	M 12x40



Full range of product and technical information place this part number in a search engine and download
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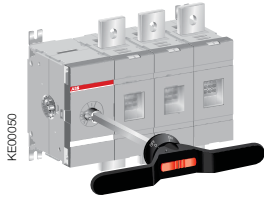
Switch disconnectors

OT1000 ...1600 & OETL 2500 ... 3150 base mounted

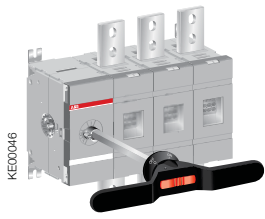
Front operated switch-disconnectors

OT 1000...1600 & OETL 2500...3150

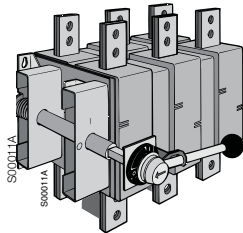
Including standard terminal bolt kit, a black ON-OFF plastic handle OHB200J12P and shaft OXP12x280 as standard. The handle is IP65 protected, padlockable in the OFF-position and with door interlock in the ON-position. The shaft is adjustable for a range of installation depths.



OT1000 - 1250_03P



OT1600_03P



OETL2500 - 3150K3

4

No of Poles	I _{th} (open) [A]	AC22A/AC23A 400V	Product Hierarchy 2200003	
			Order Code	Price
3	1000	1000/1000	OT1000E03P	878.59
3+N			OT1000E03N3P	1054.33
4			OT1000E04P	1002.89
3			OT1000E12P	878.59
4			OT1000E22P	1002.89
3			1250	1250/1250
3+N	OT1250E03N3P	1167.45		
4	OT1250E04P	1191.46		
3	OT1250E12P	972.88		
4	OT1250E22P	1191.46		
3	1600	1600/1250		
3+N			OT1600E03N3P	1645.78
4			OT1600E04P	1705.69
3			OT1600E12P	1500.04
4			OT1600E22P	1706.33
3			2000	2000/-
3+N	OT2000E03N3P	1934.37		
4	OT2000E04P	2414.70		
3	OT2000E12P	1819.27		
4	OT2000E22P	2086.59		
3	2500	2500/-		
3+N			OT2500E03N3P	2350.20
4			OT2500E04P	2530.52
3			OT2500E12P	2160.85
4			OT2500E22P	2539.56
3			3150	1600/-
3	OETL3150K185	3998.69		
4	OETL3150K4	4039.53		
3	OETL3150K3-4	POA		
3	OETL3150KV12	3426.91		
4	OETL3150KV22	4410.81		

Including an IP54 metallic handle with I-O indication. Padlockable in the O-position

Shafts & handles included as standard

Suitable for switches	Included shaft	Included handle	Included terminal bolts
OT1000...1250_P	OXP12X280	OHB274J12P	M12X50
OT1600_P	OXP12X280	OHB274J12P	M12X60
OT2000...2500_P	OXP12X280	OHB274J12P	M12X60
OETL3150	OXP12X325	YASDA7	M12X60



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Switch disconnectors accessories

Operating handles



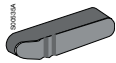
OHB 1



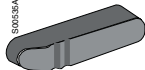
OHR 2



OHR 3



OHB 9



YAST 1

Optional handles for front operated, base & DIN-rail mounted switches

Handle knobs, mounting directly to the switch, no shaft needed

Colour	Handle Length mm	Suitable for switch	Product Hierarchy 2200003	
			Order Code	Price
Black	31	OT16...80F3/F4	OHBS1	3.35
Red			OHR1	3.35
Black	37	OT16...40F3/F4	OHBS12	4.97
Red			OHR12	4.97
Black	40	OT63...125F3/F4	OHBS2	4.12
		OT16...40F6/F8		
Red		OT63...40F6/F8	OHR2	
	OT16...40F6/F8			
Black	39	OT63...125F3/F4	OHBS3	4.41
		OT16...40F6/F8		
Red		OT63...40F6/F8	OHR3	
	OT16...40F6/F8			
Black	72	OT63...125F6/F8	OHBS9	3.59
			OHBS9/1	3.35
Red			OHR9	4.66
			OHR9/1	4.97
Black		OT160E	YAST1	5.94



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Switch disconnectors accessories

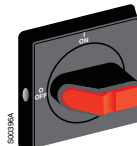
Operating handles



OH_1_



OH_3_



OH_2_

4

Optional handles for base & DIN-rail mounted switches

For shaft diameter 6mm, door drilling 22.5mm. The type and the ordering numbers are one piece

		Product Hierarchy 2200003	
Colour	Suitable for switch	Order Code	Price
IP54 handles, NEMA 1			
Black	OT16...80F	OHBS1AH	3.24
Yellow/Red		OHYS1AH	3.24
Silver		OHSS1AH	POA
Grey		OHGS1AH	POA
IP54 handles door interlock in ON position			
Black	OT16...80F	OHBS1AH1	4.17
Yellow/Red		OHYS1AH1	4.17
Silver		OHSS1AH1	4.92
Grey		OHGS1AH1	4.27
IP54 handles padlockable with one padlock with bail diameter 5...6.3mm, NEMA 1			
Black	OT16...125F	OHBS3AH	4.41
Yellow/Red		OHYS3AH	4.41
Silver		OHSS3AH	4.65
Grey		OHGS3AH	4.65
IP65 handles padlockable with max. 3 padlocks with bail diameter 5...8mm, door interlocked in ON position, defeatable, NEMA 1, 3R, 12			
Black	OT16...125F	OHBS2AJ	5.98
Yellow/Red		OHYS2AJ	5.98
Grey		OHGS2AJ	POA
IP65 handles padlockable with max. 3 padlocks with bail diameter 5...8mm, door interlocked in ON position, NEMA 1, 3R, 12			
Black	OT16...125F	OHBS2AJ1	4.98
Yellow/Red		OHYS2AJ1	4.98
Silver		OHSS2AJ1	POA
Grey		OHGS2AJ1	POA
IP65 handles with metal hasp padlockable with max. 3 padlocks door interlocked in ON position, defeatable NEMA 1, 3R, 12			
Black	OT16...125F	OHBS2AJEH1	POA

Round padlockable handles

Padlockable in O-position, max. 3 padlocks with 8mm hasp diameter.

		Product Hierarchy 2200003	
Colour	Suitable for switch	Order Code	Price
One hole mounting handle, IP65, NEMA 4X outdoor, size 66x66			
Black	OT16...125F	OZ331SPB	7.27
Yellow/Red		OZ331SPRY	7.27
IP67, IP69K, NEMA 4X outdoor, size 66x66			
Black	OT16...80F	OZ331P67B	POA
Yellow/Red		OZ331SPRY	7.27
Handles with door coupling in ON-position, not defeatable, IP65, NEMA 4X outdoor, size 66x66			
Black	OT16...125F	OZ371PB	16.44
Yellow/Red		OZ371PRY	16.44



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Switch disconnectors accessories

Operating handles

Optional handles, base & DIN-rail mounted switches

Pistol type handles

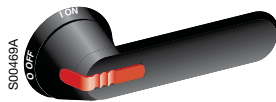
OH_handles: IP65, NEMA 1, 3R, 12, padlockable with three padlocks in OFF-position, door interlock in ON-position. Screw fixing from the back side of the handle. No screws on the front ensures double insulation. The type and the ordering numbers are for one piece.



OHY_



OHB_



OHB_



OTV_



OHB_



Full range of product and technical information place this part number in a search engine and download
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			Product Hierarchy 2200003	
Colour	Handle Length [mm]	Suitable for switches	Order Code	Price
For shaft diameter 5mm, indication in type OHB & OHY: I-O, ON-OFF, in types OHG: I-O				
Black	45	OT16...125F	OHB45J6	14.04
Yellow-Red			OHY45J6	21.07
Grey			OHG45J6	10.96
For shaft diameter 6mm, indication in types OHB & OHY: I-O, ON-OFF, in types OHG: I-O				
Black	65	OT160...250	OHB65J6	16.94
Yellow-Red			OHY65J6	16.94
Grey			OHG65J6	14.85
Black	80	OT160...250	OHB80J6	26.52
Yellow-Red			OHY80J6	26.52
Grey			OHG80J6	POA
For shaft diameter 6mm, indication: Test-OFF-ON/Test-O-I				
Black	65	OT200...250	OHB65J6T	16.94
Yellow-Red			OHY65J6T	16.94
For shaft diameter 12mm, indication in types OHB & OHY: I-O, ON-OFF, in types OHG: I-O				
Black	95	OT315...400	OHB95J12	47.80
Yellow-Red			OHY95J12	47.80
Grey			OHG95J12	46.42
Black	125	OT630...800	OHB125J12	38.83
Yellow-Red			OHY125J12	76.27
Grey			OHG125J12	45.08
Black	145	OT630...800	OHB145J12	38.83
Yellow-Red			OHY145J12	38.83
Grey			OHG145J12	POA
Black	274	OT1000...2500	OHB274J12	80.08
Yellow-Red			OHY274J12	POA
Black	330	OT1000...2500	OHB330J12	POA
Yellow-Red			OHY330J12	POA
Black	2x150	OT1000...2500	OHB150J12P	46.55
Yellow-Red			OHY150J12P	53.55
Black	2x200	OT1000...2500	OHB200J12P	49.64
Yellow-Red			OHY200J12P	63.58
Black	2x75	OETL3150	OHB275J12	53.38
Yellow-Red			OHY275J12	53.38
Grey			OHG275J12	POA
For shaft diameter 12mm, indication: Test-OFF-ON/Test-O-I				
Black	95	OT315...400	OHB95J12T	47.80
Yellow-Red			OHY95J12T	55.11
Black	125	OT630...800	OHB125J12T	45.06
Yellow-Red			OHY125J12T	63.86
Black	145	OT630...800	OHB145J12T	45.06
Yellow-Red			OHY145J12T	22.84
Black	175	OT630...800	OHB175J12T	40.96
Yellow-Red			OHY175J12T	POA
Black	274	OT1000...2500	OHB274J12T	POA
Yellow-Red			OHY330J12T	POA
Black	2x200	OT1000...2500	OHB200J12PT	43.82
Yellow-Red			OHY200J12PT	POA

• Door interlocking in ON-position means that the door can not be opened, when the handle is in the ON-position. This can be defeated in IP65 types to allow authorised personnel access for inspection

• NEMA 4, 4x pistol handles available on request
• Handles padlockable in all positions available on request

Switch disconnectors accessories

Operating handles

Pistol type handles

Colour	Handle Length [mm]	Suitable for switches	Product Hierarchy 2200003	
			Order Code	Price
For shaft diameter 12mm, indication: I-O-II				
Black	275	OETL3150	OHB275J12E011	73.41
Yellow-Red			OHY275J12E011	POA
Black			OHG275J12E011	POA

Handles for direct mounting

Indication Test-OFF-ON/Test-O-I. Padlockable with three padlocks in OFF-position. Includes shaft & mechanism cover

Colour	Handle Length [mm]	Suitable for switches	Order Code	Price
Black	65	OT160EV...250_K	OTV250EK	24.12
Yellow-Red			OTVY250EK	21.73
Black	95	OT315...400_K	OTV400EK	30.89
Yellow-Red			OTVY400EK	28.96
Black	125	OT630...800_K	OTV800EK	31.71
Yellow-Red			OTVY800EK	38.22
Black	274	OT1000...2500_K	OTV1000EK	84.29
Yellow-Red			2x200	OTV100EPK

Selector type handles

Indication I-O and ON-OFF. No separate shaft needed. The type and the ordering numbers are for one piece.

Colour	Suitable for switches	Order Code	Price
Snap-on mounting, door drilling 22.5mmø. No padlocking, IP54 NEMA 1			
Black	OT16...40FT	OHBS1PH	4.98
Yellow-Red		OHYS1PH	4.98
Silver		OHSS1PH	POA
Grey		OHGS1PH	POA
Padlockable with one padlock, IP54 NEMA 1			
Black	OT16...40FT	OHBS3PH	4.78
Yellow-Red		OHYS3PH	4.78
Silver		OHSS3PH	POA
Grey		OHGS3PH	POA
Padlockable with 3 padlocks, IP65 NEMA, 1, 3R, 12			
Black	OT16...40FT	OHBS2PJ	7.52
Yellow-Red		OHYS2PJ	7.52
Silver		OHSS2PJ	POA
Grey		OHGS2PJ	POA
Screw mounting, hole distance 36mm, No padlocking, IP54 NEMA 1			
Black	OT16...80FT	OHBS1RH	4.98
Yellow-Red		OHYS1RH	4.98
Silver		OHSS1RH	POA
Grey		OHGS1RH	POA
Padlockable with one padlock, IP54 NEMA 1			
Black	OT16...80FT	OHBS3RH	4.78
Yellow-Red		OHYS3RH	4.78
Silver		OHSS3RH	POA
Grey		OHGS3RH	POA
Padlockable with 3 padlocks, IP65 hole distance 36/48mm NEMA, 1, 3R, 12			
Black	OT16...125FT	OHBS2RJ	7.52
Yellow-Red		OHYS2RJ	7.52
Silver		OHSS2RJ	POA
Grey		OHGS2RJ	POA

4

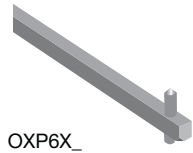


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Switch disconnectors accessories

Extended shafts

Extended shafts 6mm

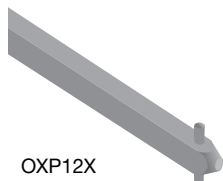


OX6X_

Shaft length	H [mm]	Suitable for switches	Product Hierarchy 2200003	
			Order Code	Price
Selector type handles for shaft diameter 6mm				
85	see dimension drawings	OT16...125F	OXS6X85	2.20
105			OXS6X105	2.13
120			OXS6X120	2.41
130			OX6X130	3.09
160			OXS6X160	2.58
180			OXS6X180	3.00
250			OXS6X250	3.78
330			OXS6X330	4.60
Round padlockable type handles for shaft diameter 6mm				
60	see dimension drawings	OT16...125F	OXS6X60	POA
85			OXS6X85	2.20
105			OXS6X105	2.13
115			OXS6X115	2.41
130			OXS6X130	2.41
155			OXS6X155	POA
200			OXS6X200	POA
300			OXS6X300	POA
Pistol type handles shaft diameter 6mm				
150	see dimension drawings	OT16...125F	OX6X150	2.80
170			OX6X170	9.76
265			OX6X265	POA
400			OX6X400	6.30
Shaft diameter 6mm				
130	105...135	OT160E	OX6X130	3.09
150	125...155		OX6X150	2.80
210	185...215		OX6X210	3.42
130	109...174	OT160EV ... 250	OX6X130	3.09
150	129...194		OX6X150	2.80
161	140... 205		OX6X161	3.34
210	189...254		OX6X210	3.42
290	269...334		OX6X290	4.47

4

Extended shafts 12mm



OX12X

Shaft diameter 12mm		Order Code	Price		
166	146...226	OT315 ...400	OX12X166	5.46	
185	165...245		OX12X185	8.67	
250	230...310		OX12X250	13.56	
280	260...340		OX12X280	13.81	
325	305...385		OX12X325	9.95	
395	445...525		OX12X395	10.89	
495	439...519		OX12X465	15.23	
535	515...595		OX12X535	18.26	
250	230...345		OX12X250	13.56	
280	260...375		OX12X280	13.81	
325	305...420	OT630...800	OX12X325	9.95	
395	375...490		OX12X395	10.89	
465	445...560		OX12X465	15.23	
535	515...630		OX12X535	18.26	
250	221...350	OT1000...2500	OX12X250	13.56	
185	251...380		OX12X280	13.81	
250	296...425		OX12X325	9.95	
280	366...495		OX12X395	10.89	
325	436...565		OX12X465	15.23	
395	506...635		OX12X535	18.26	
325	340...535		OTEL3150	OX12X325	9.95
395	410...605			OX12X395	10.89
465	480...675	OX12X465		15.23	
535	550...745	OX12X535		18.26	



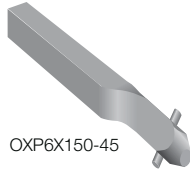
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Switch disconnectors accessories

Extended shafts

Extended shafts

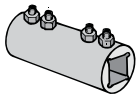
Twisted shafts for pistol type handles, the shaft position is rotated 45 degrees.



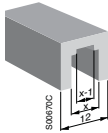
OXP6X150-45



OHZX10



OETLZX 95,
OESAZX 167



OETL ZK 19
(x = 6 mm)

4

Shaft length	H [mm]	Suitable for switches	Product Hierarchy 2200003	
			Order Code	Price
Pistol type handle shaft diameter 6mm				
150	see dimension drawings	OT16...125F	OSP6X150-45	4.45
170			OSP6X170-45	9.76
265			OSP6X265-45	POA
400			OSP6X400-45	POA
Shaft diameter 6mm				
130	109...174	OT160EV...250	OSP6X130-45	POA
150	129...194		OSP6X150-45	4.45
210	189...254		OSP6X210-45	5.17
290	269...334		OSP6X290-45	9.51
Shaft diameter 12mm				
250	230...310	OT315...400	OSP12X250-45	13.56
280	260...340		OSP12X280-45	13.81
325	305...385		OSP12X325-45	14.92
395	445...525		OSP12X395-45	15.09
465	439...519		OSP12X465-45	15.23
535	515...595		OSP12X535-45	18.14
Shaft diameter 12mm				
250	226...355	OT1000...2500	OSP12X250-45	13.56
280	256...385		OSP12X280-45	13.81
325	301...430		OSP12X325-45	14.92
395	371...500		OSP12X395-45	15.09
465	441...570		OSP12X465-45	15.23
535	511...640		OSP12X535-45	18.14
Shaft diameter 12mm				
325	340...535	OETL3150	OSP12X325-45	14.92
395	410...605		OSP12X395-45	15.09
465	480...675		OSP12X465-45	15.23
535	550...745		OSP12X535-45	18.14

Shaft alignment ring

Improves the handle operation if a handle and a shaft have been poorly aligned.

Type	Colour	Order Code	Price
For pistol type handle OH_45...275J5...12	Black	OHZX10	3.32
For selector type handles OH_1...3		OHZX11	4.38
For round padlockable handle OZG71P		OZG71	5.76

Shaft extension socket

For extending the shaft of combination attachment

Shaft Diameter [mm]	Order Code	Price
6	OESAZX167	19.30
12	OETLZX95	29.28

Adapter for extension socket

The adapter can be placed inside the extension socket OETLZX95

Shaft Diameter [mm]	Order Code	Price
6	OETLZK19	18.66

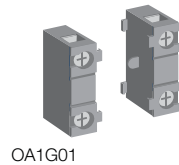


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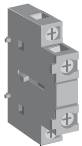
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Switch disconnectors accessories

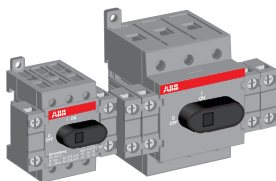
Auxiliary contacts



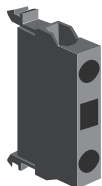
OA1G01



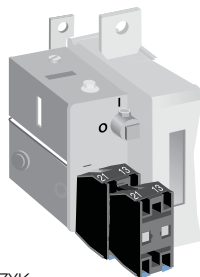
OA1G10



Auxiliary contacts - mounted on both sides of the switch



OBEA_



OZK_

Auxiliary contact blocks, IP20

Contact numbering according to EN50013

		Product Hierarchy 2200001	
Suitable for switches	Function	Order Code	Price

Aux Contacts for snap-on mounting to the side of the switch OT 16...125F_, ET_

$I_{th} = 16A$, cable cross section max. $2 \times 2.5 \text{ mm}^2$. Early-break type OA1G10
Mountable on left side, max. 2 pcs

OT 16...125F_, ET_	1NC	OA1G01	5.89
	1NC	OA1G01AU ¹⁾	7.57

Aux Contacts for mounting on the right side, max. 2 pcs OT 16...125F_, ET

OT 16...125F_, ET_	1NO	OA1G10	5.89
	1NO	OA1G10AU ¹⁾	7.57

Aux Contacts for mounting on both sides OT 16...125F

OT 16...32: max. 2NO+2NC, OT45...125: max. 4NO+4NC³⁾

OT 16...125F_	1NO+1NC	OA2G11 ²⁾	8.04
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Aux Contacts for mounting with adapter to the side of the switch OT16_, ET_

$I_{th} = 16A$, cable cross section max. $2 \times 2.5 \text{ mm}^2$. Mounting with the adapter OAZX1, max. 2 blocks/side.

OT160E_, ET_	1NO+1NC	OA2G11	8.04
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Aux Contacts for mounting with adapter on top of the switch OT160E

$I_{th} = 10A$. Cable cross section $0.5 \text{ mm}^2 \dots 2 \times 2.5 \text{ mm}^2$. Insulation voltage $U_i 690V$. Mounting with the adapter OEZNP1, max. 6 aux. blocks. Early break type.

OT160E_	1NO	OBEA10	5.89
		OBEA10AU ¹⁾	36.14
	1NC	OBEA01	5.89
		OBEA01AU ¹⁾	POA

Aux Contacts for mounting on the left side of the switch OT160EV...2500

Max. 8 auxiliary contact blocks with the OEA28 module

OT160EV...2500	1NO	OA1G10	5.89
		OA1G10AU	7.57
	1NC	OA3G01	5.89
		OA3G01AU ¹⁾	7.57

Aux Contacts for mounting on the mechanism cover OETL3150

$I_{th} = 10A$. Cable cross section $0.5 \text{ mm}^2 \dots 2 \times 2.5 \text{ mm}^2$. Insulation voltage $U_i 690V$. Early break type.

OETL3150	1NO+1NC	OZK1	32.68
	2NO+2NC	OZK2	47.17
	4NO+4NC	OZK3 ⁵⁾	92.27
	2NO	OZK4	33.28
	4NO	OZK5	47.17
	8NO	OZK6 ⁵⁾	92.27

¹⁾ Types _AU are gold plated for extremely difficult circumstances and low voltages.

²⁾ Not mountable on the same side as the fourth pole.

³⁾ Contact numbering:

(83) (43) (53) 13 21 (61) (31) (71)
(84) (44) (54) 14 22 (62) (32) (72)

⁴⁾ Auxiliary contacts OA1G_ are available in larger packing as well. A bulk package includes 50 switches. Type number: add a suffix: /B, e.g. OA1G01/B.

⁵⁾ 8 NO + 8 NC auxiliary contacts = 2 x OZK 3

⁶⁾ 16 NO auxiliary contacts = 2 x OZK 6

Early break type auxiliary contacts means that in the switches, the NO aux.contacts break before the main contacts open.



Switch disconnectors accessories

Auxiliary contacts

Mounting Accessories for Auxiliary contacts

		Product Hierarchy 2200001	
		Order Code	Price
Adapter for OA2G11 with OT160E Max. two blocks/side. Mountable on either side of the switch.		OAZX1	8.48
Adapter for OBEA_ with OT160E Mountable on top of switch		OEZNP1	9.90
Numbering stickers for aux contact blocks OBEA Required if several blocks are used.			
OBEA10 1NO		OBEAZX10	POA
OBEA01 1NC		OBEAZX01	POA
Module for aux contacts for OT160EV...2500 Screw mounting on left side of switch		OEA28	10.20

4

For OA1G_, OA2G_, OA3G_							For OBEA_ and OZ XK_			
Ue/[V]	AC15 Ie/[A]	Ue/[V]	DC12 Ie/[A] P/[W]		DC13 Ie/[A] P/[W]		AC12 Ue/[V] Ie/[A]		DC12 Ue/[V] Ie/[A]	
230	6	24	10	240	2	50	120	8	125	1.1
400	4	72	4	290	0.8	60	240	6	250	0.55
415	4	125	2	250	0.55	70	400	4	440	0.31
690	2	250	0.55	140	0.27	70	415	4	500	0.27
		440	0.1	44			480	3	600	0.2
							500	3		
							690	2		



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Switch disconnectors accessories

4th Poles, neutral & earth terminals

Fourth poles

Mountable on the side of the switch.



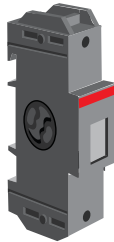
OTP_40



OTP_80



OTP_125_



OTP_160

Suitable for switches	Function	Product Hierarchy 2200001	
		Order Code	Price
Simultaneous function with the main contacts			
OT16...40F3		OTPS40FPN1	4.98
OT63...80F3		OTPS40FPN2	4.98
OT100...125F3		OTPS80FP	7.49
OT16...40FT3		OTPS125FP	16.98
OT63...80FT3		OTPS40FDN1	4.98
OT100...125FT3		OTPS40FDN2	4.98
OT160E3, ET3		OTPS80FD	7.49
OT160EV...250		OTPS125FD	16.98
OT315...400		OTZNA1-160E4	POA
OT630...800		OTPS160EP	28.61
OT1000...1250		OTZ250E	38.63
OT1600		OTZ400E	51.03
OT2000...2500		OTZ800E	114.99
			OTZ1250E
		OTZ1600E	275.78
		OTZ2500E	POA
Late-break and early-make			
OT16...40F3		OTPL40FP	4.98
OT63...80F3		OTPL80FP	7.49
OT100...125F3		OTPL125FP	16.98
OT16...40FT3		OTPL40FD	4.98
OT63...80FT3		OTPL80FD	7.49
OT100...125FT3		OTPL125FD	15.88

Neutral & earth terminals

Mountable on the side of the switch.



OXN_



OESAZX_

Suitable for switches	Function	Product Hierarchy 2200001	
		Order Code	Price
Fixed neutral			
OT16...40F3		OTPN40FP	4.98
OT63...80F3		OTPN80FP	7.49
OT100...125F3		OTPN125FP	16.98
OT106E3, ET3		OTPN160EP	28.61
OT16...40FT3		OTPN40FD	4.98
OT63...80FT3		OTPN80FD	7.49
OT 100...125ET3		OTPN125FD	16.98
Detachable neutral			
OT16...40F3		OTPD40FP	4.98
OT63...80F3		OTPD80FP	7.49
OT100...125FT3		OTPD125FP	16.98
OT63...80FT3		OTPD80FD	7.49
Protective earth			
OT16...40F3		OTPE40FP	4.98
OT63...80F3		OTPE80FP	7.49
OT100...125F3		OTPE125FP	16.98
OT 160E3, ET3		OTPE160EP	28.49
OT16...40FT3		OTPE40FD	4.98
OT63...80FT3		OTPE80FD	7.49
OT100...125FT3		OTPE125FD	17.11



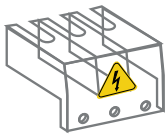
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Switch disconnectors accessories

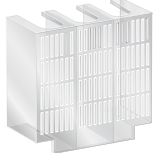
Neutral links & terminal shrouds

Neutral links

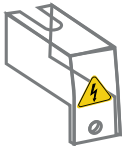
		Product Hierarchy 2200001	
Suitable for switches	I_{th} [A]	Order Code	Price
Detachable, mountable separately to the base plate			
OT 160EV...250 / OTM 160...250	250	OXN250	34.34
OT/OTM 315...400	400	OXN400	54.83
OT/OTM 630...800	800	OXN800T	86.23
OT/OTM 1000...1250	1250	OXN1250T	193.12
Mountable separately to the base plate			
	200	OESAZX162	21.04
	315	OESAZX164	22.40
	400	OESAZX165	26.74
	1000	OESAZX160	90.11



OTS_T3



OTS125T3L



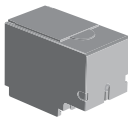
OTS_T1



OTS160T1



OTS_L_



OTS_S_

Terminal shrouds

Snap-on mounting, transparent

Suitable for switches	Order Code	Price
For 3-pole switches		
OT 16...40F3, -FT3	OTS40T3	2.90
OT63...80F3, -FT3	OTS63T3	4.41
OT 100...125F3, FT3	OTS125T3	6.40
OT125FL	OTS125T3L	POA
OT160E3	OTS160T3	21.75
OT100...125F3 with terminal clamps OZXL1 or OZXT1	OTS125T3P	6.40
For 4-pole switches		
OT160E4	OTS160T4	28.33

For 1 to 4-pole switches, shroud for single pole and for fourth pole

Order Code	Price	
OTP_40F_	OTS40T1	1.99
OTP_80F_	OTS63T1	3.39
OTP_125F	OTS125T1P	3.32
OT160E_	OTS160T1	4.43
OT100...125E3 with terminal clamps OZXL1/1 or OZXT1	OTS125T1P	3.32

Snap-on mounting, grey plastic

Suitable for switches	Description	Order Code	Price	Order Code	Price
		3-pole switches		4-pole switches	
OT160EV...250/OTM160...250	Long Type	OTS250G1L/3	20.87	OTS250G1L/4	24.79
	Short Type	OTS250G1S/3	18.96	OTS250G1S/4	23.32
OT/OTM315...400	Long Type	OTS400G1L/3	29.15	OTS400G1L/4	33.05
	Short Type	OTS400G1S/3	23.32	OTS400G1S/4	31.10
OT/OTM630...800	Long Type	OTS800G1L/3	52.19	OTS800G1L/4	69.58
	Short Type	OTS800G1S/3	46.84	OTS800G1S/4	62.47
OT/OTM1000...1600	Long Type	OTS1600G1L/3	35.17	OTS1600G1L/4	43.93
	Short Type	OTS1600G1S/3	27.03	OTS1600G1S/4	33.82
OT/OTM2000...2500	Long Type	OTS2500G1L/3	48.94	OTS2500G1L/4	58.51
	Short Type	OTS2500G1S/3	35.95	OTS2500G1S/4	44.74



Full range of product and technical information place this part number in a search engine and download
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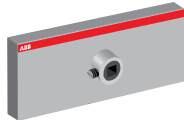
Switch disconnectors accessories

Conversion kits

Conversion kits for front operated switch combinations

6 & 8-pole switch mechanism

Parallel attachment for connecting two 3- or 4-pole switches. The switches work simultaneously. Mounting directly on the top of two switch-disconnectors, snap-on mounting. The switch size is printed on stickers for different switch sizes. The fourth pole or auxiliary contacts can be mounted on the outer side of the combination.



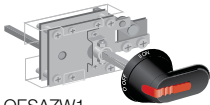
OWP6D80



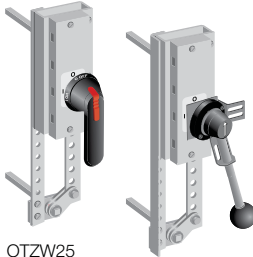
OTZW8



OESAZW2



OESAZW1



OTZW25
OETLZW11, OETLZW12



OTZW26

OETLZW13

Product Hierarchy 2200001

Suitable for switches	Shaft distance [mm]	Product Hierarchy 2200001	
		Order Code	Price
OT16 - 40		OWP6D40	9.77
OT63...80		OWP6D80	20.04
OT100...125		OWP6D125	24.67

Attachment levers provided with holes, enabling different shaft distances. The combination switches can be mounted either horizontally or vertically. Two 3 or 4-pole switches needed.

Suitable for switches	Shaft distance [mm]	Order Code	Price
OT16...40	45+(0 - 12)x15	OTZW8	16.40
OT45...80	60+(0 - 11)x15		
OT100...125	75+(0 - 10)x15		
OT160E	45+(0 - 11)x15	OESAZW2	65.43
OT160EV...250	45+(0 - 13)x15		
OT315...800	60+(0 - 19)x20	OETLZW9	107.20

Change-over switch mechanism

Two switches connected with a mechanism operating into I-O-II positions. Two 3 or 4-pole switches needed.

Suitable for switches	Shaft distance [mm]	Order Code	Price
OT16...125	90+(0 - 10)x15	OESAZW1	92.16
OT160EV...250	210+(0 - 18)x20	OTZW25	173.99
OT315...400	210+(0 - 11)x20	OETLZW11	173.66
OT630...800	210+(0 - 20)x20	OETLZW12	231.52

By-pass switch mechanism

A combination of two switches in parallel with a third switch for change-over operation to by-pass, for example, a breaker for maintenance. The by-pass attachment can be used together with another combination attachment. Three 3 or 4-pole switches needed.

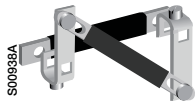
Suitable for switches	Shaft distance [mm]	Order Code	Price
OT16 - 125	Between 1 and 2: 90+(0...6)x15	OTZW17	122.20
	Between 1 and 3: 90+(0...10)x15		
OT160EV - 250	Between 1 and 2: 210+(0...9)x20	OTZW26	203.16
	Between 1 and 3: 250+(0...9)x20		
OT315 - 800	Between 1 and 2: 210+(0...18)x20	OETLZW13	190.80
	Between 1 and 3: 250+(0...18)x20		



Full range of product and technical information place this part number in a search engine and download
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Switch disconnectors accessories

Mechanical interlocks



OTZW24, 10



OETLZW 14, 3, 15

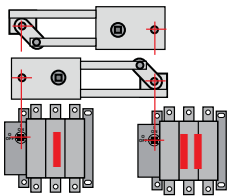
Mechanical interlock mechanism

Prevents one switch from closing to ON-position, if the other is not in OFF-position. When mounted upside down, prevents one switch from opening to OFF-position, if the other is not in ON-position. (UPS-usage, make-before-break)

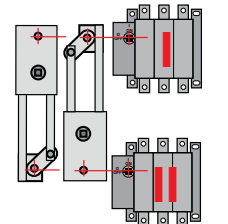
		Product Hierarchy 2200001	
Suitable for switches	Shaft distance [mm]	Order Code	Price
Two 3-pole switches needed			
OT16...125	100	OTZW24	18.63
OT160...250	190	OTZW10	34.06
OT315...400	250	OETLZW14	37.52
OT315...800	300	OETLZW3	41.17
OT 315...2500 and 3150	500	OETLZW15	43.10

The shafts and handles for conversion kits

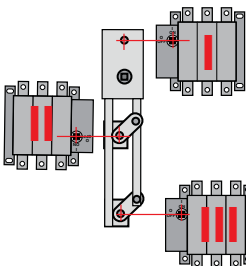
Conversion kit type	To be ordered separately		Included in conversion kit delivery		The standard handle or shaft of one of the combined switches can be used	
	Shaft	Handle	Shaft	Handle	Shaft	Handle
6 and 8-pole switches						
OWP5D1	x (shaft dia 5 mm)	OHB1A_	-	-	-	-
OWP5D2	x (shaft dia 5 mm)	OHB1A_	-	-	-	-
OWP5D3	x (shaft dia 5 mm)	OHB1A_	-	-	-	-
OWP5D4	x (shaft dia 5 mm)	OHB1A_	-	-	-	-
OWP6D1	x (shaft dia 6 mm)	OHB45J6	-	-	-	-
OWP6D2	x (shaft dia 6 mm)	OHB45J6	-	-	-	-
OTZW8	x (shaft dia 5 mm)	OHB65J5	-	-	-	-
OESAZW2	-	-	x (2 pcs)	OHB145J12	-	-
OETLZW9 for OT	-	-	-	-	x	x
OETLZW9 for OETL	-	YASDA7 or 8	-	-	x	-
Change-over switches						
OTZW6	-	-	x (2 pcs)	OHB80J6E011	-	-
OTZW25	-	-	x (2 pcs)	OHB95J12E011	-	-
OETLZW11	-	-	x (2 pcs)	OHB145J12E011	-	-
OETLZW12	-	-	x (2 pcs)	YASDA21 (metallic)	-	-
By-pass switches						
OTZW17	-	-	x (3 pcs)	OHB80J6E011	-	-
OTZW26	-	-	x (3 pcs)	OHB95J12E011	-	-
OETLZW13	-	-	x (3 pcs)	YASDA 6	-	-
Mechanical interlock						
OTZW24	-	-	-	-	x	x
OTZW10	-	-	-	-	x	x
OETLZW14	-	-	-	-	x	x
OETLZW3	-	-	-	-	x	x
OETLZW15	-	-	-	-	x	x



Change-over switches



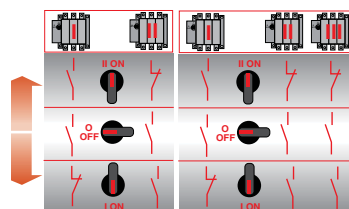
Change-over and by-pass switches



4

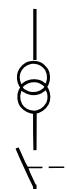


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Change-over switches

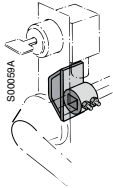
By-pass switches



Mechanical interlock

Switch disconnectors accessories

Locking & mounting accessories



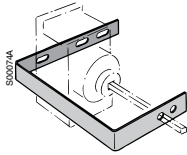
OETLZW 16



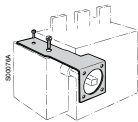
SA 1



OHZX4



OETLZX 58



OHZX 1, 3

Locking accessories

Cam attachment for Castell, Lowe & Fletcher and Ronis interlock

Cam attachment for adopting the switches to the interlock system. The interlock is not included

Suitable for switches	Product Hierarchy 2200001	
	Order Code	Price
OT16...250	OETLZW16	46.53
OT315...2500, OETL3150	OETLZW5	32.60
Padlocking adapter For a padlock with a max. 3.5mm bail		
OT45...125E, OT160	SA1	POA

Door interlock bracket

When this bracket is provided, the door interlock in handles can't be defeated.

For pistol type handles	Order Code	Price
OH_45...275	OHZX4	5.94

Mounting accessories

Shaft support for long shafts

Suitable for switches	Order Code	Price
OT16...125	OETLZX58	5.20

Handle support bracket for direct mounting on the switch mechanism

OETL3150	OETLZX71	12.25
90° angle kit, a front operated switch can be converted to side operated switch		
OETL3150	OETLZX108	182.18



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OT change-over and transfer switches 16 ... 2500 A 690V

Manual operation



	OT16F			OT63F		OT100F	
	OT25F			OT80F		OT125F	
	OT40F						
I_n / A	25	32	40	63	80	115	125
I_n / AC-22A, $\leq 415V$	16	25	40	63	80	100	125
I_n / AC-23A, $\leq 415V$	16	20	23	45	75	80	90

4

I_n / A							
I_n / AC-22A, $\leq 415V$							
I_n / AC-23A, $\leq 415V$							
I_n / AC-21B, $\leq 415V$							

Motor operation



	OTM160E_C			OTM160E_WC			OTM315E_C	
	OTM200E_C			OTM200E_WC			OTM400E_C	
	OTM250E_C			OTM250E_WC				
I_n / A	160	200	250	160	200	250	315	400
I_n / AC-22A, $\leq 415V$	160	200	250	160	200	250	315	400
I_n / AC-23A, $\leq 415V$	160	200	250	160	200	250	315	400
I_n / AC-21B, $\leq 415V$								

Automatic operation



	OTM160E_C_D			OTM160E_WC_D		
	OTM200E_C_D			OTM200E_WC_D		
	OTM250E_C_D			OTM250E_WC_D		
I_n / A	160	200	250	160	200	250
I_n / AC-22A, $\leq 415V$	160	200	250	160	200	250
I_n / AC-23A, $\leq 415V$	160	200	250	160	200	250

Accessories

Optional handles

Terminal shrouds

Extended shafts

Connecting accessories

Auxiliary contacts

Locking accessories



OT160E
OT200E
OT250E

OT160E_W
OT200E_W
OT250E_W

OT315E
OT400E

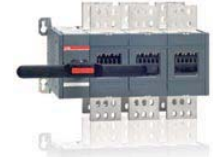
OT630E
OT800E

160 200 250
160 200 250
160 200 250

160 200 250
160 200 250
160 200 250

315 400
315 400
315 400

630 800
630 800
630 800



OT1000E
OT1250E

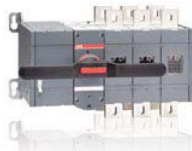
OT1600E

OT2000E
OT2500E

1000 1250
1000 1250
1000 1250

1600
1600
1250

2000 2500



OTM630E_C
OTM800E_C

OTM1000E_C
OTM1250E_C

OTM1600E_C

OTM2000E_C
OTM2500E_C

630 800
630 800
630 800

1000 1250
1000 1250
1000 1250

1600
1600
1250

2000 2500



OTM315E_C_D
OTM400E_C_D

OTM630E_C_D
OTM800E_C_D

OTM1000E_C_D
OTM1250E_C_D

OTM1600E_C_D

315 400
315 400
315 400

630 800
630 800
630 800

1000 1250
1000 1250
1000 1250

1600
1600
1250

Growing importance of a secure power supply

As industrial processes and IT applications diversify, a secure power supply is becoming an increasingly important asset in the drive to cut production and maintenance costs. In emergency situations, the system logic of power distribution can become complex with mechanical devices looking after making, breaking, conducting and isolating power. Loads may sometimes need to be transferred from one supply to another — this will be the case when energy use is restricted or when the supply source is overloaded.

High performance level

In change-over applications where the loaded switch may need to be operated remotely, adequate durability has been ensured by testing against the IEC 60947-6-1 standard in the specification of endurance requirements.

Utilization categories:

- AC-31 for non-inductive or slightly inductive load
- AC-33 for motor loads or mixed loads including motors

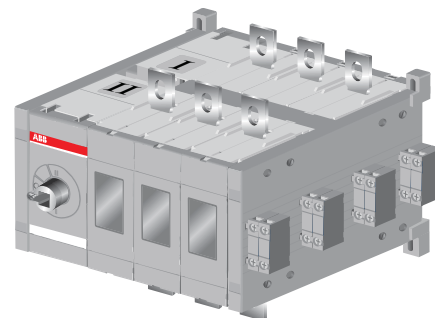
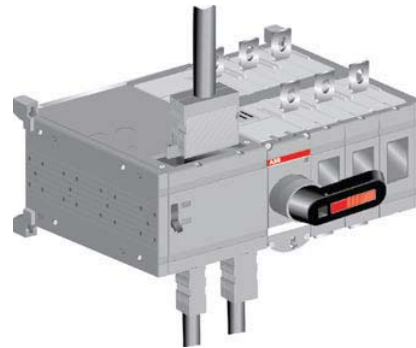
The motorized change-over switches have snap-on control wire connections. Auxiliary contacts can be snapped-on to the sides of the switches and the power terminals can be connected in parallel with bridging bars.

4

ABB change-over switches are rated according to IEC 60947-6-1 standard

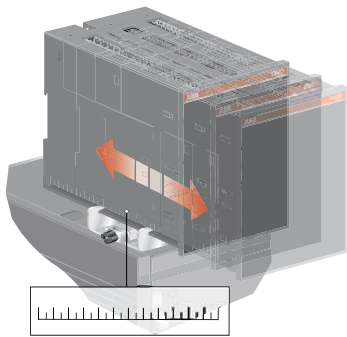
Easy installation for local or remote control

ABB change-over switches are very easy to install: the manually operated switch is operated via a handle fixed directly on the switch or on the panel door. The 16 to 125 Ampere sizes can be snapped-on to a DIN rail and the front fits in the 45 mm consumer unit cut-out.



The automatic transfer switches feature the automatic control unit which can be adjusted according to the mounting depth of the panel. Voltage sensing kit is installed at the factory thus reducing the expensive and time consuming installation work.

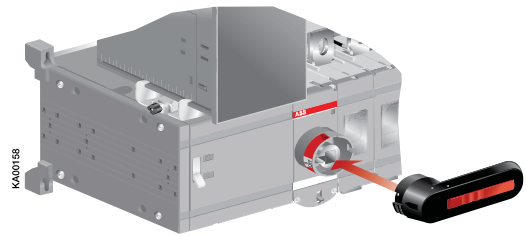
- ▶ Quick and easy installation
– savings in time and expenses



Safe and reliable

ABB automatic transfer switches ensure service continuity with a number of built-in, integrated safety features. The change-over mechanism, for example, offers three stable positions which ensure isolation of the two asynchronous power supplies. This eliminates any risk of short-circuit between them, even in the presence of transient voltages. The automatic transfer switches are equipped with handle for manual operation in case of emergency.

- ▶ Inbuilt safety



Compact design

The design of ABB change-over switches is advanced and compact, allowing installation in confined spaces at considerable savings. Compact double layer construction.

- ▶ Minimizing the need for space

Change-over switches

Manual OT16...315

Change-over switches, 3 & 4 pole, I-O-II -indication

Includes terminal clamps IP20. Handle and shaft has to be ordered separately.



OT 45...63 E3C



OT 125 E3C

4



OT160...250E03CP



OT315...400E03CP



OT630...800E03CP



OT160...250E03WCP



Full range of product and technical information place this part number in a search engine and download
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Rated current / Rate Power			Product Hierarchy 2200003		
AC-21A...AC-22A		AC-23A	Number of Poles	Order Code	Price
Up to 415V I[A]	400V S/[kVA]	400-415V I[A], P/[kW]			
16	11	16/7.5	3	OT16F3C	34.47
			4	OT16F4C	43.34
25	17	20/9	3	OT25F3C	41.95
			4	OT25F4C	50.68
40	27	23/11	3	OT40F3C	45.80
			4	OT40F4C	55.61
63	43	45/22	3	OT63F3C	60.55
			4	OT63F4C	72.34
80	55	75/37	3	OT80F3C	74.28
			4	OT80F4C	88.49
100	70	80/37	3	OT100F3C	144.71
			4	OT100F4C	177.87
125	86	90/45	3	OT125F3C	166.08
			4	OT125F4C	182.47

Manual Change-over switches, 3 & 4 pole, I-O-II -indication

Including a black plastic IP65 I-O-II pistol type handle, padlockable in the O-position, door interlock in the I- & II-positions and when padlocked.

				Order Code	Price
160	110	160/90	3	OT160E03CP	316.86
				OT160E12CP	357.28
				OT160E03WCP	374.10
200	135	200/110	4	OT160E04CP	341.99
				OT160E13CP	376.03
				OT160E04WCP	392.39
250	170	250/140	3	OT200E03CP	447.98
				OT200E12CP	516.32
				OT200E03WCP	540.16
315	215	315/160	4	OT200E04CP	486.22
				OT200E13CP	549.61
				OT200E04WCP	572.52
250	170	250/140	3	OT250E03CP	458.90
				OT250E12CP	528.42
				OT250E03WCP	551.09
315	215	315/160	4	OT250E04CP	502.61
				OT250E13CP	563.73
				OT250E04WCP	585.14
315	215	315/160	3	OT315E03CP	535.38
				OT315E12CP	571.65
				OT315E04CP	622.79
			4	OT315E13CP	623.26

Change-over switches

Manual OT400...2500

Manual Change-over switches, 3 & 4 pole, I-O-II -indication

Including a black plastic IP65 I-O-II pistol type handle, padlockable in the O-position, door interlock in the I- & II-positions and when padlocked.



OT160...250E03CP



OT315...400E03CP



OT630...800E03CP



OT1250E03CP



OT2500E03CP

				Product Hierarchy 2200003	
				Order Code	Price
400	275	400/220	3	OT400E03CP	600.94
				OT400E12CP	635.18
			4	OT400E04CP	671.96
				OT400E13CP	704.49
630	435	630/355	3	OT630E03CP	704.75
				OT630E12CP	822.34
			4	OT630E04CP	786.69
				OT630E13CP	977.24
800	550	800/450	3	OT800E03CP	1054.38
				OT800E12CP	1140.82
			4	OT800E13CP	1342.22
				OT800E04CP	1245.59
1000	680	1000/560	3	OT1000E03CP	2075.99
				OT1000E12CP	2125.58
			4	OT1000E04CP	2731.56
				OT1000E13CP	2618.00
				OT1000E22CP	2618.00
			1250	850	1250/710
	OT1250E12CP	2539.41			
			4	OT1250E04CP	2950.08
				OT1250E22CP	3110.17
				OT1250E13CP	3110.17
			1600	1000	1250/710
	OT1600E12CP	3577.53			
			4	OT1600E04CP	4028.94
				OT1600E13CP	4342.66
				OT1600E22CP	4342.66
			2000	1350	-
	OT2000E12CP	4549.44			
			4	OT2000E04CP	4785.70
				OT2000E13CP	5896.55
				OT2000E22CP	5896.55
			2500	1700	-
	OT2500E12CP	5273.23			
			4	OT2500E04CP	5310.16
				OT2500E13CP	7090.03
				OT2500E22CP	7090.03

4



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Change-over switches

Manual fast transition OT160...800

Manual Change-over switches, 3 & 4 pole, I-O-II -indication

Including a black plastic IP65 I-O-II pistol type handle, shaft and bolt set for the cable connection. Handle not padlockable and no door interlocking. Operating angle 90° to achieve fast switching. Minimum OFF-time between transfer from I-II or II-I is 20ms.

4



OT250E03CFP



OT315E13CFP



OT630-800E03CFP



OT630-800E04CFP

						Product Hierarchy 2200003	
						Order Code	Price
160	110	160/90	3			OT160E03CFP	POA
						OT160E12CFP	POA
						OT160E03WCFP	POA
			4			OT160E04CFP	POA
						OT160E13CFP	POA
						OT160E04WCFP	POA
200	135	200/110	3			OT200E03CFP	POA
						OT200E12CFP	POA
						OT200E03WCFP	POA
			4			OT200E04CFP	POA
						OT200E13CFP	POA
						OT200E04WCFP	POA
250	170	250/140	3			OT250E03CFP	POA
						OT250E12CFP	POA
						OT250E03WCFP	POA
			4			OT250E04CFP	POA
						OT250E13CFP	POA
						OT250E04WCFP	POA
315	215	315/160	3			OT315E03CFP	POA
						OT315E12CFP	POA
						OT315E04CFP	POA
			4			OT315E13CFP	POA
						OT400E03CFP	POA
						OT400E12CFP	POA
400	275	400/220	3			OT400E04CFP	908.90
						OT400E13CFP	POA
						OT630E03CFP	POA
			4			OT630E12CFP	POA
						OT630E04CFP	POA
						OT630E13CFP	POA
630	435	630/355	3			OT800E03CFP	POA
						OT800E12CFP	POA
						OT800E04CFP	POA
			4			OT800E13CFP	POA
						OT800E03CFP	POA
						OT800E12CFP	POA
800	550	800/450	3			OT800E04CFP	POA
						OT800E13CFP	POA
						OT800E03CFP	POA

Shafts, handle and bolt kits included as standard

Suitable for switches	Shaft	Handle	Bolt kit
OT160...250_C	XP6x161	OHB65J6E011	M8x25
OT315...400_C	XP12x166	OHB95J12E011	M10x30
OT630...800_C	XP12x185	OHB125J12E011	M12x40
OT1000...2500_C		OHB200J12PE011	M12x60
OT160...250_CF	XP6x161	OHB65J6E69	M8x25
OT315...400_CF	XP12x166	OHB95J12E69	M10x30
OT630...800_CF	XP12x185	OHB145J12E69	M12x40

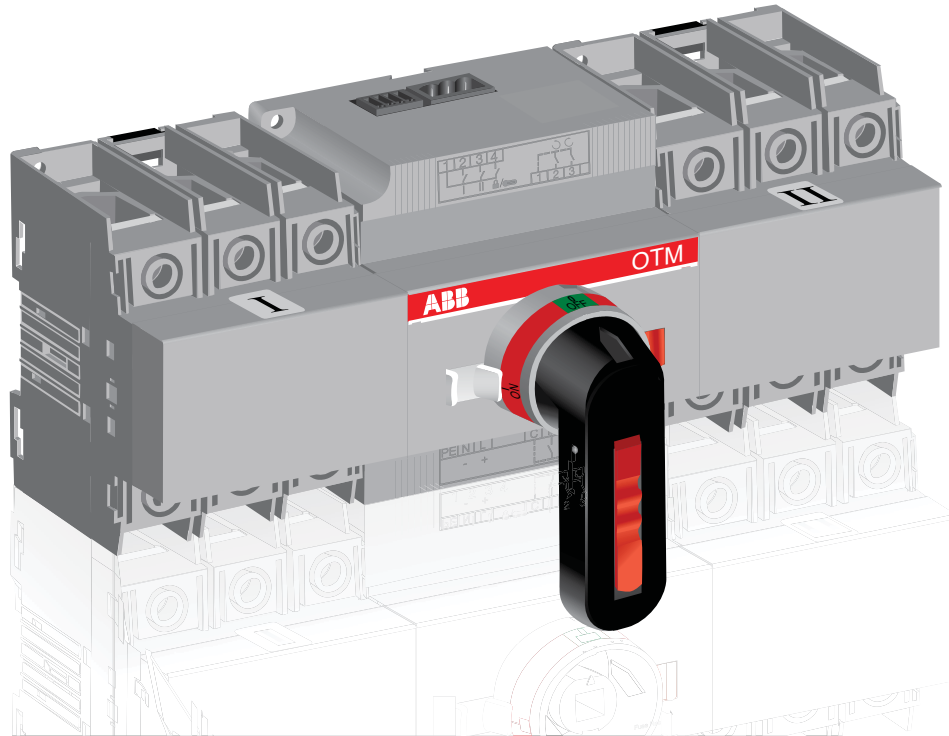


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1SCC303003C0201

OTM40...125_C

Improves your performance



4

Assembly made easy

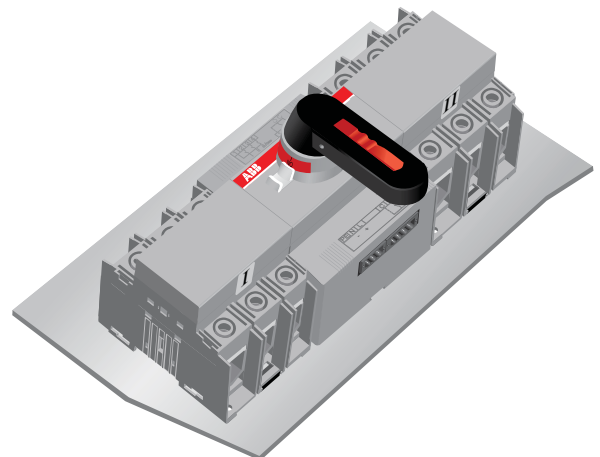
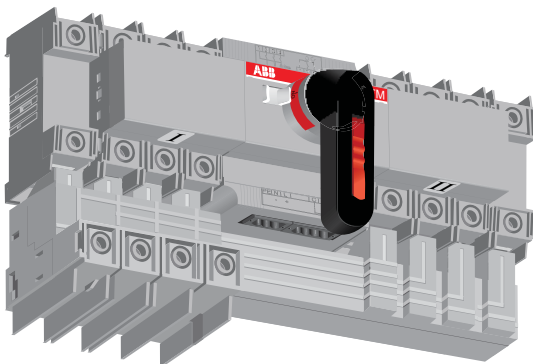
- Bridging bars for quick wiring
- Tunnel terminals ensure a tight and good connection every time
- Snap on accessories are easy to install
- Mounting in any direction

- ▶ Fast and reliable installation every time

Most compact solution

- The very small footprint area of OTM allows it to be installed in confined spaces

- ▶ Reduced size means savings in costs



Effortless assembly, safety features, optimized performance and small size enable OTM40...125_C motorized change-over switches to improve the performance of your application!

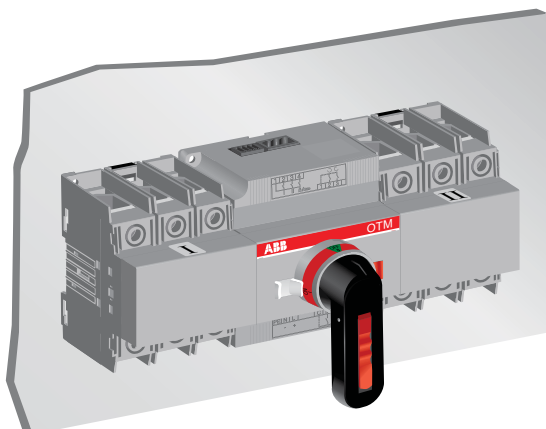
ABB offers a wide range of components for change-over applications. Meaning that all components can be sourced from one supplier.

4

Performance that meets your needs

- Tested according to IEC 60947-3 and IEC 60947-6-1
- Full ratings according to utilization categories AC22A/32B which are the typical categories in GenSet applications
- A wide supply voltage range provides enhanced logistics and effortless design work
- 3- and 4-pole switches as standard

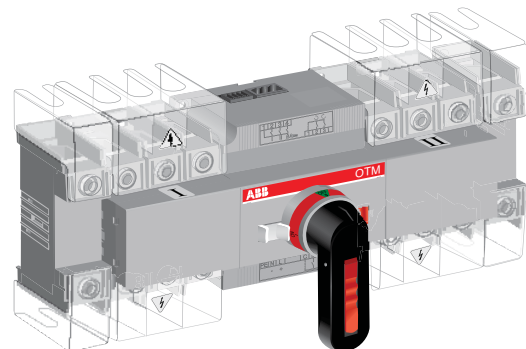
- ▶ Designed for your application



Safe to use

- OTM is not only a transfer device, it is also an isolator providing safe maintenance work
- Reliable position indication is always guaranteed
- Finger-safe construction prevents contact with live parts
- Mechanical and electrical locking options - safety is always considered

- ▶ Safe and reliable operation and maintenance



Change-over switches

Motorised OTM40...125_C



Change-over switches, motor operation, I-O-II operation, open transition
OTM40...125_C

Including handle for manual operation, a handle storage clip and male connectors for control circuits. Cable cross section for OTM40 is 2.5...25mm² or 2 x 2.5...16mm² and for OTM63...125 is 10...70mm²

OTM40...125F3C_



OTM40...125F4C_



Motor voltage U_e 110-240 V AC/DC

No of Poles	Rated Current AC21A .. AC22A 415V [A]	Rated Power 400V [kVA]	Rated Current AC31B / AC33B 415V [A]	Part Number	Product Hierarchy 2200003	
					Order Code	Price
3	40	27	40/40	OTM40F3CMA230V	OTM40F3CMA230V	POA
4				OTM40F4CMA230V	OTM40F4CMA230V	473.88
3	63	43	63/63	OTM63F3CMA230V	OTM63F3CMA230V	POA
4				OTM63F4CMA230V	OTM63F4CMA230V	514.71
3	80	55	80/80	OTM80F3CMA230V	OTM80F3CMA230V	POA
4				OTM80F4CMA230V	OTM80F4CMA230V	555.42
3	100	70	100/80	OTM100F3CMA230V	OTM100F3CMA230V	POA
4				OTM100F4CMA230V	OTM100F4CMA230V	599.87
3	125	86	125/80	OTM125F3CMA230V	OTM125F3CMA230V	POA
4				OTM125F4CMA230V	OTM125F4CMA230V	666.52



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Change-over switches

Motorised OTM160...200

Motorised Change-over switches, 3 & 4 pole, I-O-II -indication

Including a handle for manual operation, bolt kit with nut and washers for all terminals and male connectors for control circuits. Types OTM160-2500E_ include a clamp for the handle and spare fuses. Types OTM160-250E_W are equipped with extended phase distance.



OTM160...250E3_



OTM160...250E4_



OTM160...250E3W_

4

Rated Current AC-21A... AC-22A Up to 415V I[A]	Rated Power S/[kVA]	Rated Current AC-31B AC-33B 415V I[A]	Number of Poles	Motor voltage Ue	Product Hierarchy 2200003					
					Order Code	Price				
160	110	160/160	3	220-240v AC	OTM160E3CM230C	1201.89				
				110-125v AC/DC	OTM160E3CM110C	POA				
				48v DC	OTM160E3CM48D	POA				
				24v DC	OTM160E3CM24D	595.91				
				220-240v AC	OTM160E3WCM230C	651.60				
				110-125v AC/DC	OTM160E3WCM110C	POA				
			4	48v DC	OTM160E3WCM48D	POA				
				24v DC	OTM160E3WCM24D	POA				
				220-240v AC	OTM160E4CM230C	1234.67				
				110-125v AC/DC	OTM160E4CM110C	POA				
				48v DC	OTM160E4CM48D	POA				
				24v DC	OTM160E4CM24D	638.60				
				220-240v AC	OTM160E4WCM230C	729.57				
				110-125v AC/DC	OTM160E4WCM110C	POA				
				48v DC	OTM160E4WCM48D	POA				
				24v DC	OTM160E4WCM24D	POA				
				200	135	200/200	3	220-240v AC	OTM200E3CM230C	1466.25
								110-125v AC/DC	OTM200E3CM110C	POA
48v DC	OTM200E3CM48D	POA								
24v DC	OTM200E3CM24D	1132.40								
220-240v AC	OTM200E3WCM230C	651.60								
110-125v AC/DC	OTM200E3WCM110C	POA								
4	48v DC	OTM200E3WCM48D	POA							
	24v DC	OTM200E3WCM24D	POA							
	220-240v AC	OTM200E4CM230C	1529.67							
	110-125v AC/DC	OTM200E4CM110C	POA							
	48v DC	OTM200E4CM48D	POA							
	24v DC	OTM200E4CM24D	1214.09							
	220-240v AC	OTM200E4WCM230C	729.57							
	110-125v AC/DC	OTM200E4WCM110C	POA							
	48v DC	OTM200E4WCM48D	POA							
	24v DC	OTM200E4WCM24D	POA							



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Change-over switches

Motorised OTM250...630

Motorised Change-over switches, 3 & 4 pole, I-O-II -indication

Including a handle for manual operation, bolt kit with nut and washers for all terminals and male connectors for control circuits. Types OTM160-2500E_ include a clamp for the handle and spare fuses. Types OTM160-250E_W are equipped with extended phase distance.



OTM250E4CM230C



OTM315...400E3_



OTM315...400E4_

Rated Current AC-21A... AC-22A Up to 415V I/[A]	Rated Power 400V S/[kVA]	Rated Current AC-31B AC-33B 415V I/[A]	Number of Poles	Motor voltage Ue	Product Hierarchy 2200003	
					Order Code	Price
250	170	250/250	3	220-240v AC	OTM250E3CM230C	1524.21
				110-125v AC/DC	OTM250E3CM110C	POA
				48v DC	OTM250E3CM48D	POA
				24v DC	OTM250E3CM24D	1314.33
				220-240v AC	OTM250E3WCM230C	651.60
				110-125v AC/DC	OTM250E3WCM110C	POA
			4	48v DC	OTM250E3WCM48D	POA
				24v DC	OTM250E3WCM24D	POA
				220-240v AC	OTM250E4CM230C	1567.91
				110-125v AC/DC	OTM250E4CM110C	POA
				48v DC	OTM250E4CM48D	POA
				24v DC	OTM250E4CM24D	1407.15
315	215	315/315	3	220-240v AC	OTM315E3CM230C	1638.94
				110-125v AC/DC	OTM315E3CM110C	POA
				48v DC	OTM315E3CM48D	POA
				24v DC	OTM315E3CM24D	1325.47
			4	220-240v AC	OTM315E4CM230C	1726.35
				110-125v AC/DC	OTM315E4CM110C	POA
				48v DC	OTM315E4CM48D	POA
				24v DC	OTM315E4CM24D	1444.28
400	275	400/400	3	220-240v AC	OTM400E3CM230C	1988.57
				110-125v AC/DC	OTM400E3CM110C	POA
				48v DC	OTM400E3CM48D	POA
				24v DC	OTM400E3CM24D	1537.10
			4	220-240v AC	OTM400E4CM230C	2168.86
				110-125v AC/DC	OTM400E4CM110C	POA
				48v DC	OTM400E4CM48D	POA
				24v DC	OTM400E4CM24D	1670.76
400	275	400/400	3	220-240v AC	OTM630E3CM230C	2961.02
				110-125v AC/DC	OTM630E3CM110C	POA
				48v DC	OTM630E3CM48D	POA
				24v DC	OTM630E3CM24D	1745.02
			4	220-240v AC	OTM630E4CM230C	3059.35
				110-125v AC/DC	OTM630E4CM110C	0POA
				48v DC	OTM630E4CM48D	POA
				24v DC	OTM630E4CM24D	1912.09

4



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Change-over switches

Motorised OTM800...1600

Motorised Change-over switches, 3 & 4 pole, I-O-II -indication

Including a handle for manual operation, bolt kit with nut and washers for all terminals and male connectors for control circuits. Types OTM160-2500E_ include a clamp for the handle and spare fuses. Types OTM160-250E_W are equipped with extended phase distance.

4



OTM1250E3CM230C



OTM1600E3CM230C

Rated Current	Rated Power S/[kVA]	Rated Current I[A]	Number of Poles	Motor voltage Ue	Product Hierarchy 2200003	
					Order Code	Price
AC-21A... AC-22A Up to 415V I[A]	400V	AC-31B AC-33B 415V I[A]	3	220-240v AC	OTM800E3CM230C	3605.66
				110-125v AC/DC	OTM800E3CM110C	POA
				48v DC	OTM800E3CM48D	POA
				24v DC	OTM800E3CM24D	1982.64
			4	220-240v AC	OTM800E4CM230C	3769.55
				110-125v AC/DC	OTM800E4CM110C	POA
				48v DC	OTM800E4CM48D	POA
				24v DC	OTM800E4CM24D	2190.55
800	550	720/650	3	220-240v AC	OTM1000E3CM230C	3802.33
				110-125v AC/DC	OTM1000E3CM110C	POA
				48v DC	OTM1000E3CM48D	POA
				24v DC	OTM1000E3CM24D	2004.91
			4	220-240v AC	OTM1000E4CM230C	3988.08
				110-125v AC/DC	OTM1000E4CM110C	POA
				48v DC	OTM1000E4CM48D	POA
				24v DC	OTM1000E4CM24D	2116.30
1000	680	1000/1000	3	220-240v AC	OTM1250E3CM230C	4020.86
				110-125v AC/DC	OTM1250E3CM110C	POA
				48v DC	OTM1250E3CM48D	POA
				24v DC	OTM1250E3CM24D	2227.68
			4	220-240v AC	OTM1250E4CM230C	4261.23
				110-125v AC/DC	OTM1250E4CM110C	POA
				48v DC	OTM1250E4CM48D	POA
				24v DC	OTM1250E4CM24D	2394.76
1250	850	1250/1000	3	220-240v AC	OTM1600E3CM230C	4436.06
				110-125v AC/DC	OTM1600E3CM110C	POA
				48v DC	OTM1600E3CM48D	POA
				24v DC	OTM1600E3CM24D	2728.91
			4	220-240v AC	OTM1600E4CM230C	4698.28
				110-125v AC/DC	OTM1600E4CM110C	POA
				48v DC	OTM1600E4CM48D	POA
				24v DC	OTM1600E4CM24D	2914.55
1600	100	-	3	220-240v AC	OTM1600E3CM230C	4436.06
				110-125v AC/DC	OTM1600E3CM110C	POA
				48v DC	OTM1600E3CM48D	POA
				24v DC	OTM1600E3CM24D	2728.91
			4	220-240v AC	OTM1600E4CM230C	4698.28
				110-125v AC/DC	OTM1600E4CM110C	POA
				48v DC	OTM1600E4CM48D	POA
				24v DC	OTM1600E4CM24D	2914.55



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Change-over switches

Motorised OTM2000...2500

Motorised Change-over switches, 3 & 4 pole, I-O-II -indication

Including a handle for manual operation, bolt kit with nut and washers for all terminals and male connectors for control circuits. Types OTM160-2500E_ include a clamp for the handle and spare fuses. Types OTM160-250E_W are equipped with extended phase distance.



OTM2500E3CM230C

Rated Current AC-21A... AC-22A Up to 415V I[A]	Rated Power 400V S/[kVA]	Rated Current AC-31B AC-33B 415V I[A]	Number of Poles	Motor voltage Ue	Product Hierarchy 2200003	
					Order Code	Price
2000	1350	-	3	220-240v AC	OTM2000E3CM230C	8632.82
				110-125v AC/DC	OTM2000E3CM110C	POA
				48v DC	OTM2000E3CM48D	POA
				24v DC	OTM2000E3CM24D	POA
			4	220-240v AC	OTM2000E4CM230C	9287.30
				110-125v AC/DC	OTM2000E4CM110C	POA
				48v DC	OTM2000E4CM48D	POA
				24v DC	OTM2000E4CM24D	POA
2500	1700	-	3	220-240v AC	OTM2500E3CM230C	9232.67
				110-125v AC/DC	OTM2500E3CM110C	POA
				48v DC	OTM2500E3CM48D	POA
				24v DC	OTM2500E3CM24D	POA
			4	220-240v AC	OTM2500E4CM230C	9697.04
				110-125v AC/DC	OTM2500E4CM110C	POA
				48v DC	OTM2500E4CM48D	POA
				24v DC	OTM2500E4CM24D	POA

4

Shafts, handle and bolt kits included as standard

Suitable for switches	Handle	Bolt kit
OTM160...250	OTV250ECMK	M8x25
OTM315...400	OTV400ECMK	M10x30
OTM630...800	OTV800ECMK	M12x40
OTM1000...2500	OTV1000ECMK	M12x60



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Change-over switches

Automatic transfer switches OTM160...1600

Automatic transfer switches, I-O-II operation, open transition OTM_C3D_ types, voltage sensing on the top

Including a handle for manual operation, PCB connectors, bolt kit with nut and washers for all terminals.
Types OTM160...1600_C_D, including a voltage sensing kit on the bottom of the switch, available on request, please add the letter "B" to the type code. Types OTM160-1600E include a clamp for the handle and spare fuses.
Types OTM160...250_WC_D_ are equipped with extended phase distance.

Automatic operation, OTM_C3D_ types, voltage sensing on the top. Including dual power source for the motor operator.
Motor operator voltage $U_e = 220-240\text{v AC}$



OTM400E4C3D230C

4



OTM800E4C3D230C



OTM1600E4WC3D230C



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Rated Current AC-21A... AC-22A Up to 415V I[A]	Rated Power S/[kVA]	Rated Current AC-31B AC-33B 415V I[A]	Number of Poles	Product Hierarchy 2200003	
				Order Code	Price
160	110	160/160	4	OTM160E4C3D230C	1737.27
				OTM160E4WC3D230C	1384.87
				OTM200E4C3D230C	1912.09
				OTM200E4WC3D230C	3135.37
				OTM250E4C3D230C	2043.20
				OTM250E4WC3D230C	1384.87
				OTM315E4C3D230C	2403.77
				OTM400E4C3D230C	2622.30
				OTM630E4C3D230C	3933.45
				OTM800E4C3D230C	4916.81
				OTM1000E4WC3D230C	POA
				OTM1250E4WC3D230C	POA
OTM1600E4WC3D230C	POA				

Automatic operation, OTM_C3D_ types, voltage sensing on the top. Motor operator voltage $U_e = 220-240\text{v AC}$

Rated Current AC-21A... AC-22A Up to 415V I[A]	Rated Power S/[kVA]	Rated Current AC-31B AC-33B 415V I[A]	Number of Poles	Product Hierarchy 2200003	
				Order Code	Price
160	110	160/160	3	OTM160E3C8D230C	2775.99
			4	OTM160E4C8D230C	3059.35
200	135	200/200	3	OTM200E3C8D230C	3496.40
			4	OTM200E4C8D230C	3693.07
250	170	250/250	3	OTM250E3C8D230C	3649.36
			4	OTM250E4C8D230C	3813.25
315	215	315/315	3	OTM315E3C8D230C	4151.97
			4	OTM315E4C8D230C	4359.57
400	275	400/400	3	OTM400E3C8D230C	4446.98
			4	OTM400E4C8D230C	4774.76
630	435	650/650	3	OTM630E3C8D230C	5244.60
			4	OTM630E4C8D230C	5561.45
800	550	720/650	3	OTM800E3C8D230C	5889.24
			4	OTM800E4C8D230C	6293.52
1000	680	1000/1000	3	OTM1000E3C8D230C	3777.62
			4	OTM1000E4C8D230C	5867.27
1200	850	1250/1000	3	OTM1200E3C8D230C	POA
			4	OTM1200E4C8D230C	POA
1600	1000	1600/1000	3	OTM1600E3C8D230C	4587.61
			4	OTM1600E4C8D230C	6948.38

Change-over switches

Manual change-over switches OTM160...315

Manual change-over switches, I - I+II - II -operation, closed transition

Including dual power source for the motor operator.
Motor operator voltage $U_e = 220-240\text{V AC}$

Including a handle for manual operation, PCB connectors, bolt kit with nut and washers for all terminals.
Types OTM160...1600_C_D, including a voltage sensing kit on the bottom of the switch, available on request, please add the letter "B" to the type code. Types OTM160-1600E include a clamp for the handle and spare fuses.
Types OTM160...250_WC_D_ are equipped with extended phase distance.



OTM160E03CLP



OTM250E03CLP



OTM315E03CLP

Rated Current AC-21A... AC-22A Up to 415V I[A]	Rated Power 400V S/[kVA]	Rated Current AC-31B AC-33B 415V I[A]	Number of Poles	Product Hierarchy 2200003	
				Order Code	Price
160	110	160/160	3	OTM160E03CLP	POA
				OTM160E12CLP	POA
				OTM160E03WCLP	POA
			4	OTM160E04CLP	POA
				OTM160E13CLP	POA
				OTM160E04WCLP	POA
200	135	200/200	3	OTM200E03CLP	POA
				OTM200E12CLP	POA
			4	OTM200E03WCLP	POA
				OTM200E04CLP	POA
				OTM200E13CLP	POA
				OTM200E04WCLP	POA
250	170	250/250	3	OTM250E03CLP	POA
				OTM250E12CLP	POA
				OTM250E03WCLP	POA
			4	OTM250E04CLP	POA
				OTM250E13CLP	POA
				OTM250E04WCLP	POA
315	215	315/315	3	OTM315E03CLP	POA
				OTM315E12CLP	POA
			4	OTM315E04CLP	POA
				OTM315E13CLP	POA

4



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Change-over switches

Manual change-over switches OT400...1600

Manual change-over switches, I - I+II - II -operation, closed transition

Including dual power source for the motor operator.
Motor operator voltage $U_e = 220-240\text{v AC}$

Including a handle for manual operation, PCB connectors, bolt kit with nut and washers for all terminals.
Types OTM160...1600_C_D, including a voltage sensing kit on the bottom of the switch, available on request, please add the letter "B" to the type code. Types OTM160-1600E include a clamp for the handle and spare fuses.
Types OTM160...250_WC_D_ are equipped with extended phase distance.

4



OTM630E13CLP



OTM1250E03CLP

Rated Current	Rated Power	Rated Current	Number of Poles	Product Hierarchy 2200003	
				Order Code	Price
AC-21A... AC-22A Up to 415V I[A]	400V S/[kVA]	AC-31B AC-33B 415V I[A]			
400	275	400/400	3	OTM400E03CLP	POA
				OTM400E12CLP	POA
			4	OTM400E04CLP	POA
				OTM400E13CLP	POA
630	435	650/650	3	OTM630E03CLP	POA
				OTM630E12CLP	POA
			4	OTM630E04CLP	POA
				OTM630E13CLP	POA
800	550	720/650	3	OTM800E03CLP	POA
				OTM800E12CLP	POA
			4	OTM800E04CLP	POA
				OTM800E13CLP	POA
1000	680	1000/1000	3	OTM1000E03CLP	POA
				OTM1000E12CLP	POA
			4	OTM1000E04CLP	POA
				OTM1000E13CLP	POA
1250	850	1250/1000	3	OTM1250E03CLP	POA
				OTM1250E12CLP	POA
			4	OTM1250E04CLP	POA
				OTM1250E13CLP	POA
1600	1000	1600/1000	3	OTM1600E03CLP	POA
				OTM1600E12CLP	POA
			4	OTM1600E04CLP	POA
				OTM1600E13CLP	POA

Shafts, handle and bolt kits included as standard

Suitable for switches	Handle	Bolt kit
OTM160...250	OTV250ECMK	M8x25
OTM315...400	OTV400ECMK	M10x30
OTM630...800	OTV800ECMK	M12x40
OTM1000...2500	OTV1000ECMK	M12x60



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Change-over switches

Operating handles

Handles

Handle knobs, mounting directly to the switch, no shaft needed



OHRS 2



OHRS 3



OHBS 9



OHBS2_

Colour	Non Padlockable	Padlockable in O-position	Suitable for switch	Product Hierarchy 2200003	
				Order Code	Price
Black	-	X	OT16...80F_C	OHBS2	4.12
Red				OHR2	4.12
Black	X	-		OHR3	3.71
Red				OHR3	3.74
Black	-	X		OHR1	3.35
Red				OHR1	3.35
Black	X	-	OT100...125F_C	OHR9	3.59
Red				OHR9	4.66
Black	-	X		OHR11	5.90
				OHR11	5.90
Black		X	OTM40...125F_C	OHB65D6CM	POA

External handles

Selector handle IP65, Nema type 1, 3R, 12 indication I-O-II. Padlockable in O-position with maximum of three padlocks with bail diameter 5...8mm (two lower holes) and 5...6.3mm (the upper hole). Door interlocked in I- and II-position and when padlocked in the O-position.

Colour	Shaft diameter	Suitable for switch	Product Hierarchy 2200003	
			Order Code	Price
Black	6	OT16...125F	OHBS2AJE011	8.95
Yellow/Red			OHYS2AJE011	10.69

Pistol type handle IP65, Nema type 1, 3R, 12 indication I-O-II. Padlockable with maximum of three padlocks with bail diameter 5...10mm. Door interlocked in I- and II-position and when padlocked.

Padlockable in all positions				
Black	6	OT16...125F_C	OHB45J6E311	21.07
Yellow/Red			OHY45J6E311	21.07
Black	6	OT160...250E_C	OHB65J6E311	37.28
			OT315...400E_C	OHB95J12E311
	12	OT630...800E_C	OHB125J12E311	50.32
			OT1000...2500E_C	OHB200J12E311

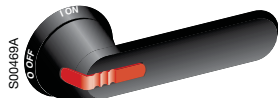
Padlockable in O-position				
Black	6	OT16...125F_C	OHB45J6E011	21.07
Yellow/Red			OHY45J6E011	21.07
Black	6	OT160...250E_C	OHB65J6E011	37.28
Yellow/Red			OHY65J6E011	37.28
Black	12	OT315...400E_C	OHB95J12E011	POA
Yellow/Red			OHY95J12E011	POA
Black	12	OT630...800E_C	OHB125J12E011	68.21
Yellow/Red			OHY125J12E011	76.27
Black	12	OT1000...2500E_C	OHB200J12E011	POA
Yellow/Red			OHY200J12E011	POA

Metallic handles IP65, Nema type 1, 3R, 4, 4X, 12 indication I-O-II. Padlockable with maximum of three padlocks in OFF-position, door interlocked in I- and II-position.

Colour	Shaft diameter	Handle length (mm)	Order Code	Price
Metal	12	220	YASDA21	63.39
		320	YASDA6	72.63



OHY_



OHB_



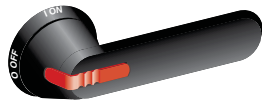
OHB_



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Change-over switches

Operating handles



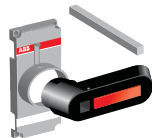
OHB_

Pistol handles

Plastic IP65, operating angle 90°, handle not padlockable or door interlocked.

Colour	Suitable for switch	Product Hierarchy 2200003	
		Order Code	Price
Indication I - O - II			
Black	OT160...250_CF	OHB65J6E69	POA
	OT315...400_CF	OHB65J12E69	POA
	OT630...800_CF	OHB145J12E69	POA
Indication I - I+II - II			
Black	OT160...250_CL	OHB65J6E65	POA
	OT315...400_CL	OHB65J12E65	POA
	OT630...800_CL	OHB145J12E65	POA
	OT1000...2500_CL	OHB200J12E65	POA

4



OTV_

Handles, direct mounting

Plastic handle with 3 padlocks in O-position. Includes a shaft and a mechanism cover. Types -ECMK include also microswitches. Shaft included.

Colour	Suitable for switch	Order Code	Price
Indication I - O - II			
Black		OTV250ECK	28.93
		OTV400ECK	25.63
		OTV800ECK	30.44
		OTV1000ECK	POA
Black		OTV250ECMK	POA
		OTV400ECMK	64.60
		OTV800ECMK	72.77
		OTV1000ECMK	POA

Plastic handle operating angle 90°, handle not padlockable. Includes a shaft and a mechanism cover.

Indication I - O - II

Black	OT160...250_CF	OTV250ECFK	POA
	OT315...400_CF	OTV400ECFK	POA
	OT630...800_CF	OTV800ECFK	POA

Plastic handle operating angle 90°, handle not padlockable. Includes a shaft and a mechanism cover.

Indication I - I+II - II

Black	OT160...250_CL	OTV250ECLK	POA
	OT315...400_CL	OTV400ECLK	POA
	OT630...800_CL	OTV800ECLK	POA
	OT1000...2500CL	OTV1000ECLK	POA

Accessories

Description	Suitable for switch	Part No	Order Code	Price
Handle storage clip	OTM40...125F	OTVS0	1SCA117524R1001	POA
Handle and spare fuse storage clip	OTM160...250E_	-	OTVS1	POA
	OTM315...2500E_	-	OTVS2	POA

Connection kits

Suitable for switch	Cable cross section [mm²]	Part No	Order Code	Price
OTM40...125F3C_	10 ... 70	OMZC03	OMZC03	POA
OTM40...125F4C_		OMZC04	OMZC04	73.02

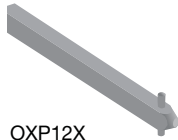


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Change-over switches

Extended shafts



OXP12X

Shafts for selector type handles 6mm

Shaft length	H [mm]	Suitable for switches	Product Hierarchy 2200003	
			Order Code	Price
85	103...114	OT16...40	OXS6x85	POA
105	123...134		OXS6x105	POA
120	138...149		OXS6x120	POA
130	148...159		OXS6x130	POA
85	121...131	OT63...80	OXS6x85	POA
105	141...151		OXS6x105	POA
120	156...166		OXS6x120	POA
130	166...176		OXS6x130	POA
85	120...130	OT100...125	OXS6x85	POA
105	140...150		OXS6x105	POA
120	155...165		OXS6x120	POA
130	165...175		OXS6x130	POA

Shafts for pistol type handles 6mm

150	164...175	OT16...40	OXP6x150	POA
170	184...195		OXP6x170	POA
265	279...290		OXP6x265	POA
400	414...425		OXP6x400	POA
150	183...194	OT63...80	OXP6x150	POA
170	203...214		OXP6x170	POA
265	298...309		OXP6x265	POA
400	433...444		OXP6x400	POA
150	192...206	OT100...125	OXP6x150	POA
170	212...226		OXP6x170	POA
265	307...321		OXP6x265	POA
400	442...456		OXP6x400	POA
90	166...214	OT160...250E_C	OXP6x90	POA
130	209...254		OXP6x130	POA
161	240...285		OXP6x161	POA
210	289...334		OXP6x210	POA
290	369...414		OXP6x290	POA
360	439...484		OXP6x360	POA

4

Shafts for pistol type handles 12mm

107	209...266	OT160...250E_C	OXP12x107	POA
148	243...307		OXP12x148	POA
166	261...325		OXP12x166	POA
185	280...344		OXP12x185	POA
250	345...409		OXP12x250	POA
280	375...439		OXP12x280	POA
325	420...484		OXP12x325	POA
395	490...554		OXP12x395	POA
465	560...624	OXP12x465	POA	
148	287...355	OT630...800E_C	OXP12x148	POA
185	324...422		OXP12x185	POA
250	389...487		OXP12x250	POA
325	464...562		OXP12x325	POA
395	534...632		OXP12x395	POA
465	604...702	OXP12x465	POA	
166	339...425	OT1000...2500E_C	OXP12x166	POA
250	423...509		OXP12x250	POA
325	498...584		OXP12x325	POA
395	568...654		OXP12x395	POA
465	638...724		OXP12x465	POA



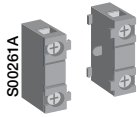
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Change-over switches

Auxiliary contacts, 4th poles, terminal shrouds

Auxiliary contact blocks, IP20

Contact numbering according to EN50013



OA1G_
OA3G01



OA2G11

Suitable for switches	Installation side	Function	Product Hierarchy 2200001	
			Order Code	Price
Aux Contacts for snap-on mounting to the side of the switch IP20.				
$I_m = 16A$, cable cross section max. $2 \times 2.5 \text{ mm}^2$.				
OT16...125F_C	Right	1NO	OA1G10	7.57
		1NC	OA18G01	POA
	Left	1NO	OA7G10	5.76
		1NC	OA1G01	5.89
OT63...125F3C	Either	1NO/1NC	OA2G11	8.04
Aux Contacts mounting on the side of the switch maximum 8 blocks IP20.				
OT160...2500E_C_	Right	1NO	OA1G10	7.57
		1NC	OA2G11	8.04

Fourth poles

Mountable on the side of the switch.

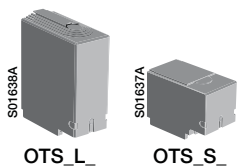


OTP_63_

Suitable for switches	Rated current/ up to 415v I[A]		Product Hierarchy 2200001	
	AC-21A/AC-22A	AC-23A	Order Code	Price
Simultaneous function with the main contacts				
OT16...40	40	23	OTPS40FPN1	4.98
			OTPS40FPN2	4.98
OT63...80	80	75	OTPS80FP	7.49
OT100...125	125	90	OTPS125FP	16.98

Terminal shrouds

Snap-on mounting, transparent



OTS_L_

OTS_S_

Suitable for switches	Order Code	Price
For 3-pole switches		
OT 16...40	OTS40T3	2.90
OT63...80	OTS63T3	4.41
OT 100...125	OTS125T3	6.40
For 4th pole		
OTPS40FPN1	OTS40T1	1.99
OTPS40FPN2		
OTPS80FP	OTS63T1	3.39
OTPS125FP	OTS125T1	4.78



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Change-over switches

Connection kits

Parallel connection kits

Suitable for switches	Max cable size [mm ²]	Product Hierarchy 2200001	
		Order Code	Price
OT16...40F3C	6 (fine stranded), 10 (stranded)	OZXA33	15.02
OT16...40F4C		OZXA32	21.35
OT63...80F3C	25	OZXA38	22.74
OT63...80F4C		OZXA39	32.34
OT100...125F3C	50	OZXA40	34.12
OT100...125F4C		OZXA41	37.12

Bridging Bars

Suitable for switches	Number of poles	Order Code	Price
OT_160...250E_C	3	OTZC13	15.82
	4	OTZC14	20.39
OT_315...400E_C	3	OTZC23	21.34
	4	OTZC24	27.82
OT_600...800E_C	3	OTZC33	57.99
	4	OTZC34	81.19
OT_1000...1250E_C	3	OTZC43	231.61
	4	OTZC44	310.20
OT_1600E_C	3	OTZC53	318.46
	4	OTZC54	426.00
OT_2000...2500E_C	3	OTZC63	620.38
	4	OTZC64	823.05

4

Reversing Bars

Suitable for switches	Order Code	Price
OT_160...250E_C	OTZR1	POA
OT_315...400E_C	OTZR2	POA
OT_600...800E_C	OTZR3	POA



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OS switch fuses

16...1250 A 690V

Manual operation



DIN	OS16FD	OS40FD	OS32GD	OS125GD
	OS35FD		OS63GD	OS160GD
BS	OS20FB		OS32GB	OS100GB
	OS32FB		OS63GB	OS125GB
				OS160GB
NFC	OS25FF		OS50GF	OS125GF
	OS32FF			
UL/CSA	OS30FACC		OS60GJ	OS100GJ
	OS30FAJ			

4

	OS Mini							OS						
Switch size [A]	16	20	25	30	32	35	40	32	50	60	63	100	125	160
AC23/400 V [kW]	7.5	11		15	15	18,5		15	22	30			55	75
AC23/415 V [kW]	7.5			15				15		30			55	55 75
480 V [HP]				15						30			60	
600 V [HP]				20						50			75	

Motor operation



DIN		OSM32GD	OSM125GD
		OSM63GD	OSM160GD
BS		OSM32GB	OSM100GB
		OSM63GB	OSM125GB
			OSM160GB
NFC		OSM50GF	OSM125GF

	OSM					
Switch size [A]	32	50	63	100	125	160

Accessories

- Optional handles
- Extended shafts
- Auxiliary contacts
- Fourth poles
- N & PE terminals

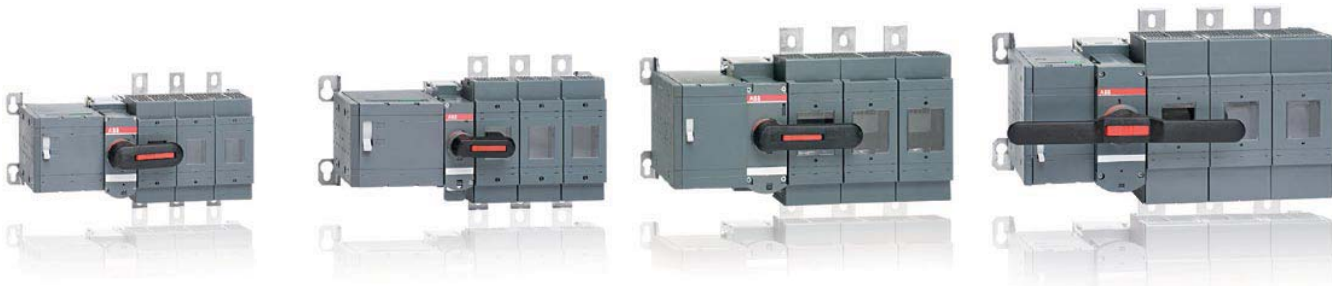
Solid links

- Terminal shrouds
- Connecting accessories
- Conversion kits
- Blown fuse indicators
- Locking accessories



OS200D	OS400D	OS630D	OS1250D
OS250D		OS800D	
OS200B	OS315B	OS630B	OS1250B
OS250B	OS400B	OS800B	
OS200J	OS400J	OS600J	OS1200L
		OS800L	

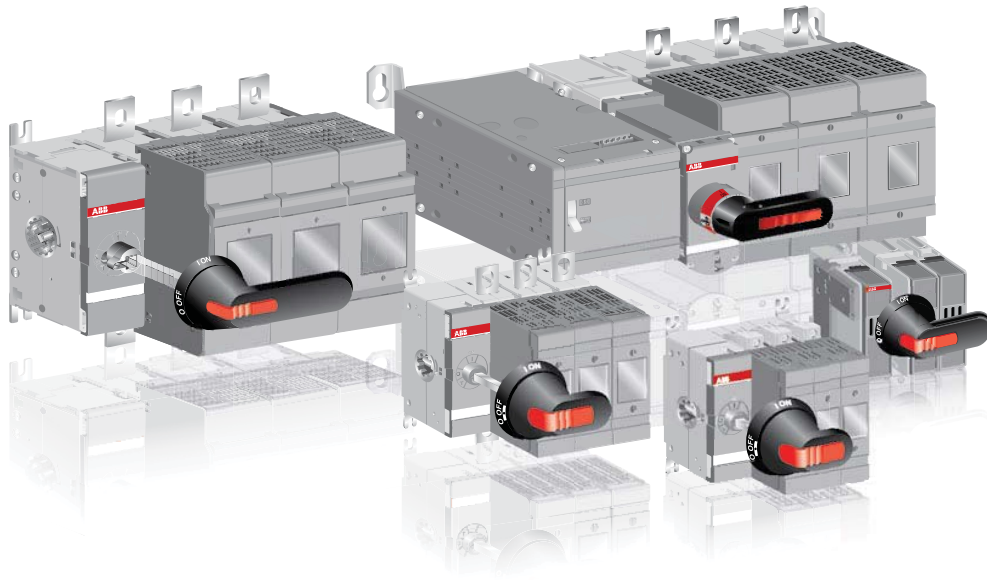
200 250	315 400	600 630 800	1200 1250
110 140	220	355 450	560
110 145	180 230	355 450	560
150	250	400 500	-
200	350	500 600	-



OSM200D	OSM400D	OSM630D	OSM1250D
OSM250D		OSM800D	
OSM200B	OSM315B	OSM630B	OSM1250B
OSM250B	OSM400B	OSM800B	

200 250	315 400	630 800	1250
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Features of OS switch fuses 16 ... 1250 A 690V



4

Features within the range of ABB switch fuses include single pole to four pole versions.

The switch fuse mechanism located in any position, increasing the ease of installation and adaptability to different types of cubicle designs (OS32G...1250).

A wide selection of accessories improve the usability of the switch fuses; 6 and 8- pole, changeover, by-pass and mechanically interlocked switch combinations can be built up by means of conversion kits.

The switch fuses are available for all types of fuse links, DIN, BS, NFC, UL, CSA. Switch fuses are also suitable for remote control by the motorized OSM versions.

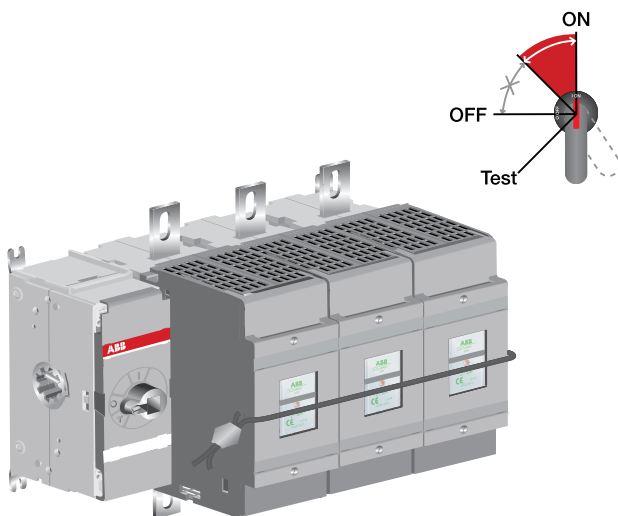
Designed for safety

The switch fuse ensures safe operation, protecting both people and equipment.

Designed and based on substantial experience of electrical safety, the switch fuse eliminates the risk of electrical accidents:

- The fuse covers cannot be opened while the switch fuse is in the ON-position and can be sealed in the closed position.
- The double insulated external operating handle eliminates the risk of touching live parts outside the box.
- The handle indicates the position of the contacts with complete reliability in all situations.
- The frame is made of robust plastic with excellent mechanical and thermal properties.
- Voltage output pins (as standard)
- Pole markings as standard

● You take no risks with OS16...1250 switch fuses

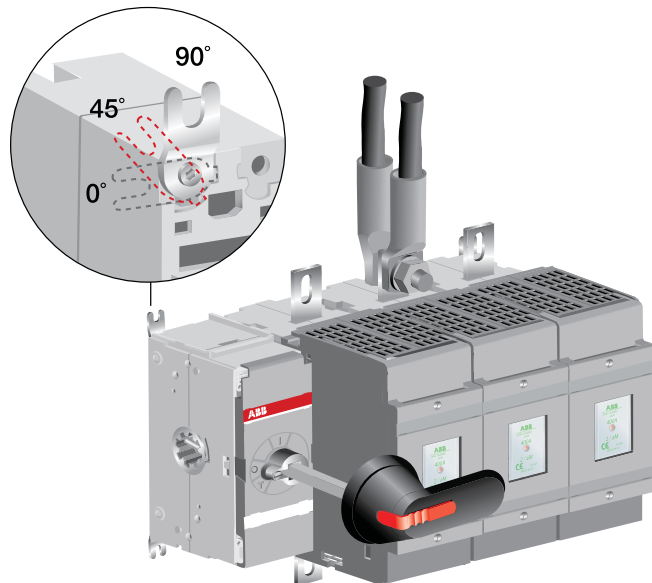


Switch fuses for extreme conditions - Numerous applications require switch fuses that can withstand extreme conditions. High voltages and high short circuit currents create a demand for superior performance without neglecting safety.

Easy, flexible installation

The OS 32...1250 switch fuse is easy to use and a snap to install according to your choice: the adjustable mounting feet allow both top and side mounting of the switch fuse.

The OS switch fuse offers you flexible cabling options. The high terminal positioning with space to the back plate simplifies the mounting of cables. It's also ideal for double cabling, which in turn saves on space.



Superior performance

- High CTI in supporting parts, resulting high U_i ratings
- The contact constructions are optimal, regardless of fuse type, DIN, BS, NFC or UL-type
- Meets the requirements for installation close to the main transformer up to 100 kA in heavy industry and in ships

- High performance level and smart design makes OS switch fuses suitable for all applications in low voltage networks.

Compact construction

- Intelligent construction in combination with a small number of components results in a very compact mechanism design
- Very small footprint area

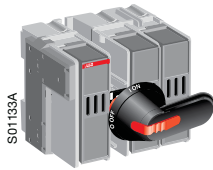
- Space savings mean cost reduction!

Switch fuses

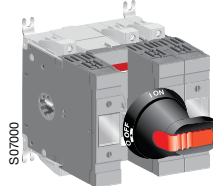
OS20...160 BS -type

Front operated switch fuses

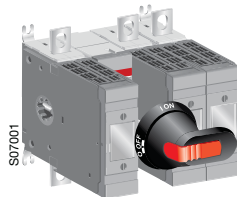
Including terminal bolt kit (OS100...160), a black ON-OFF plastic handle and shaft as standard. The handle is IP65 protected, padlockable in the OFF-position and with door interlock in the ON-position. The shaft is adjustable for a range of installation depths.



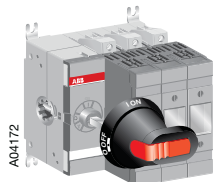
(OS Mini)
OS20...32FB12A1
OS32FB12A2
OS32FB12F1



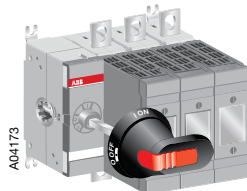
OS32G...63GB12P



OS100G...160GB12P



OS32G...63GB03P



OS100G...160GB03P



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Rated current AC-20...23 ≤ 690V [A]	Rated Power AC-23 400/500/690V [kW]	Fuse Size	No. of poles	Product Hierarchy 2100002	
				Order Code	Price

Mechanism between the poles - protected tunnel terminals, IP20

20	7.5/11/15	A1	3	OS20FB12A1-2	32.06
			4	OS20FB22A1N1	54.71
32	15/18/25	A1	3	OS32FB12A1	59.00
			4	OS32FB22A1N1	68.50
	15/18.5/22	A2	3	OS32FB12A2	59.00
			4	OS32FB12A2N1	POA
32	15/18.5/22	A2, A3	2	OS32GB11P	72.03
			3	OS32GB12P	62.50
			4	OS32GB22N1P	75.39
63	30/37/55	A2, A3	2	OS63GB11P	90.80
			3	OS63GB12P	90.47
			4	OS63GB22N1P	114.47

Terminal bolt kit

100	55/55/90	A2, A3, A4 ¹⁾	2	OS100GB11P	117.70
			3	OS100GB12P	124.08
			4	OS100GB22N1P	159.11
125	55/75/110	A2, A3, A4 ¹⁾	2	OS125GB11P	126.61
			3	OS125GB12P	172.63
			4	OS125GB22N1P	189.60
160	75/90/132	A2, A3, A4 ¹⁾	2	OS160GB11P	137.00
			3	OS160GB12P	181.38
			4	OS160GB22N1P	226.17

Mechanism at the end of the switch, protected tunnel terminals, IP20

32	15/18.5/22	A2, A3	2	OS32GB02P	55.72
			3	OS32GB03P	61.41
			4	OS32GB04N1P	73.21
63	30/37/55	A2, A3	2	OS63GB02P	77.57
			3	OS63GB03P	87.96
			4	OS63GB04N1P	107.63

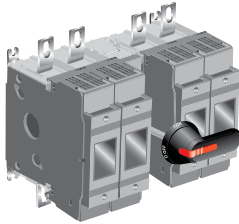
Terminal Bolt Kit

100	55/55/90	A2, A3, A4 ¹⁾	2	OS100GB02P	97.24
			3	OS100GB03P	114.38
			4	OS100GB04N1P	142.77
125	55/75/110	A2, A3, A4 ¹⁾	2	OS125GB02P	129.08
			3	OS125GB03P	152.52
			4	OS125GB04N1P	181.56
160	75/90/132	A2, A3, A4 ¹⁾	2	OS160GB02P	151.87
			3	OS160GB03P	178.10
			4	OS160GB04N1P	220.71

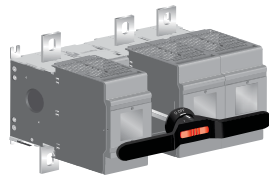
Switch fuses OS200...1250 BS -type

Front operated switch fuses - Mechanism between the poles

Including terminal bolt kit, a black ON-OFF plastic handle and shaft as standard. The handle is IP65 protected, padlockable in the OFF-position and with door interlock in the ON-position. The shaft is adjustable for a range of installation depths.



OS250B22N2P



OS1250B12P

Rated current AC-20...23 ≤ 690V [A]	Rated Power AC-23 400/500/690V [kW]	Fuse Size	No. of poles	Product Hierarchy 2100002	
				Order Code	Price
200	110/132/200			OS200B12P	246.76
				OS200B22N2P	284.84
250	140/170/250	B1-B3	3	OS250B12P	304.54
			4	OS250B22N2P	355.90
315	160/220/220	B1-B4	3	OS315B12P	345.66
			4	OS315B22N2P	495.29
400	220/280/400	B1-B4	3	OS400B12P	449.83
			4	OS400B22N2P	596.12
630	355/450/630	C1-C2	3	OS630B12P	858.20
			4	OS630B22N2P	1118.14
800	450/560/710	C1-C2	3	OS800B12P	1104.66
			4	OS800B22N2P	1426.64
1250 ¹⁾ 1000 ²⁾	560/710/1000	D1	3	OS1250B12P	1311.15
			4	OS1250B22N2P	1851.28

4

Shafts, handles & bolt kits included as standard

Suitable for switches	Included shaft	Included handle	Included terminal bolts
OS20...32FB (OS Mini)	OXp6X150	OHB65J6	-
OS32...63G_P	OXp6X161	OHB45J6	-
OS100...160G_P	OXp6X161	OHB65J6	M8x25
OS200_P	OXp6X210	OHB65J6	M8x25
OS250_P	OXp6X210	OHB65J6	M10x30
OS315...400_P	OXp12X250	OHB95J12	M10x30
OS630...800_P	OXp12X280	OHB145J12	M12x40
OS1250_P	OXp12X395	OHB200J12	M12x50

OS20...160

N1 = Non-fused switched neutral on left side
N2 = Non-fused switched neutral on the right side

¹⁾ AC-20...22
²⁾ AC-23
³⁾ Include a detachable neutral link integrated into the mechanism

OS200...125 0

N1 = Non-fused switched neutral on left side
N2 = Non-fused switched neutral on the right side

¹⁾ AC-20...22
²⁾ AC-23
³⁾ Include a detachable neutral link integrated into the mechanism

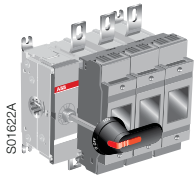


Full range of product and technical information place this part number in a search engine and download

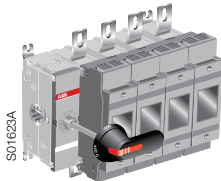
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Switch fuses

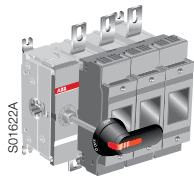
OS200...1250 BS -type



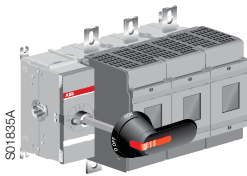
OS200B03P



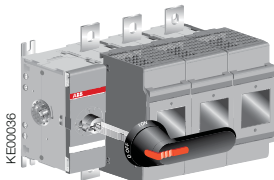
OS200B04P



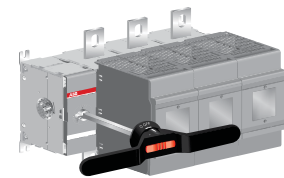
OS250B03P



OS400B03P



OS800B03P



OS1250B03P

Front operated switch fuses - Mechanism at the end of the switch

Including terminal bolt kit, a black ON-OFF plastic handle and shaft as standard. The handle is IP65 protected, padlockable in the OFF-position and with door interlock in the ON-position. The shaft is adjustable for a range of installation depths.

Rated current AC-20...23 ≤ 690V [A]	Rated Power AC-23 400/500/690V [kW]	Fuse Size	No. of poles	Product Hierarchy 2100002	
				Order Code	Price
200	110/132/200	B1-B2	2	OS200B02P	POA
			3	OS200B03P	236.38
			3+N ³⁾	OS200B03N3P	261.37
			4	OS200B04N2P	293.27
250	140/170/250	B1-B3	2	OS250B02P	POA
			3	OS250B03P	304.54
			3+N ³⁾	OS250B03N3P	335.14
			4	OS250B04N2P	355.90
315	160/220/220	B1-B4	2	OS315B02P	284.41
			3	OS315B03P	345.66
			3+N ³⁾	OS315B03N3P	420.49
			4	OS315B04N2P	495.29
400	220/280/400	B1-B4	2	OS400B02P	POA
			3	OS400B03P	451.48
			3+N ³⁾	OS400B03N3P	480.53
			4	OS400B04N2P	574.69
630	355/450/630	C1-C2	2	OS630B02P	POA
			3	OS630B03P	741.01
			3+N ³⁾	OS630B03N3P	926.31
			4	OS630B04N2P	915.57
800	450/560/710	C1-C3	2	OS800B02P	POA
			3	OS800B03P	1055.12
			3+N ³⁾	OS800B03N3P	1387.00
			4	OS800B04N2P	1426.64
1250 ¹⁾ 1000 ²⁾	560/710/1000	D1	2	OS1250B02P	POA
			3	OS1250B03P	1311.15
			3+N ³⁾	OS1250B03N3P	1822.98
			4	OS1250B04N2P	1851.28

4



Full range of product and technical information place this part number in a search engine and download
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N2 = Non-fused switched neutral on the right side
N3 = Include a detachable neutral link integrated into the mechanism

¹⁾ Max. fuse diameter 32 mm

²⁾ AC-23

³⁾ Include a detachable neutral link integrated into the mechanism

Switch fuses

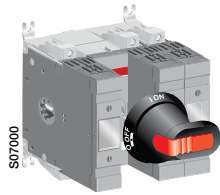
OS40 ...160 DIN -type

Front operated switch fuses

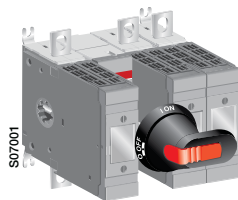
Including terminal bolt kit in OS125G...160G, a black ON-OFF plastic handle and shaft as standard. The handle is IP65 protected, padlockable in the OFF-position and with door interlock in the ON-position. The shaft is adjustable for a range of installation depths.



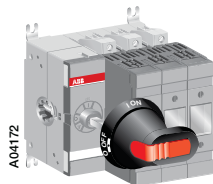
OS40FD12000 (OS Mini)



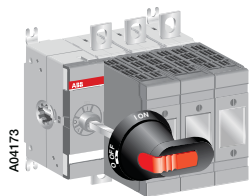
OS32G...63GD12P



OS125G...160GD12P



OS32G...63GD03P



OS125G...160GD03P

Rated current AC-20...23 ≤ 690V [A]	Rated Power AC-23 400/500/690V [kW]	Fuse Size	No. of poles	Product Hierarchy 2100002	
				Order Code	Price

Mechanism between the poles

Protected tunnel terminals, IP20

40	18.5/22/30	000	3	OS40FD12000	96.36
			4	OS40FD22000N1	POA
32	15/18.5/22	000	3	OS32GD12P	POA
			4	OS32GD22N2P	POA
			4	OS32GD22FP	POA
63	30/37/55	000	3	OS63GD12P	123.26
			4	OS63GD22N2P	POA
			4	OS63GD22FP	POA

Terminal bolt kit

125	55/75/110	000, 00	3	OS125GD12P	174.13
			4	OS125GD22N2P	POA
			4	OS125GD22FP	POA
160	75/90/132	000, 00	3	OS160GD12P	POA
			4	OS160GD22N2P	POA
			4	OS160GD22FP	267.51

Mechanism at the end of the switch,

Protected tunnel terminals, IP20

32	15/18.5/22	000	3	OS32GD03P	95.61
			4	OS32GD04N2P	117.70
			4	OS32GD04FP	POA
63	30/37/55	000	3	OS63GD03P	87.96
			4	OS63GD04N2P	151.69
			4	OS63GD04FP	POA

Terminal Bolt Kit

125	55/75/110	000, 00	3	OS125GD03P	152.52
			4	OS125GD04N2P	189.73
			4	OS125GD04FP	POA
160	75/90/132	000, 00	3	OS160GD03P	181.93
			4	OS160GD04N2P	245.71
			4	OS160GD04FP	POA

Shafts, handles included as standard

Suitable for switches	Included shaft	Included handle	Included terminal bolts
OS40	OXF6X150	OHB65J6	-
OS32_...63G_	OXF6X161	OHB45J6	-
OS125_...160G_	OXF6X161	OHB65J6	M8x25



Full range of product and technical information place this part number in a search engine and download
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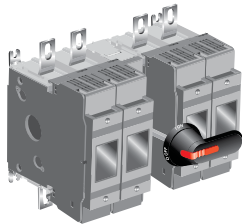
F = Fused switched neutral
N1 = Non-fused switched neutral on the left side
N2 = Non-fused switched neutral on the right side

Switch fuses

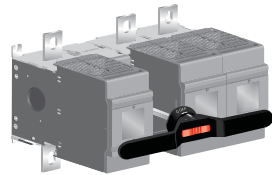
OS200 ...1250 DIN -type

Front operated switch fuses - Mechanism between the poles

Including terminal bolt kit, a black ON-OFF plastic handle and shaft as standard. The handle is IP65 protected, padlockable in the OFF-position and with door interlock in the ON-position. The shaft is adjustable for a range of installation depths. OS1250DA: a fuse replacement tool is integrated in the fuse cover.



OS250D22N2P



OS1250D12P

4

Rated current AC-20...23 ≤ 690V [A]	Rated Power AC-23 400/500/690V [kW]	Fuse Size	No. of poles	Product Hierarchy 2100002	
				Order Code	Price
Protected tunnel terminals, IP20					
200	110/132/200	00	3	OS200DZ12P	POA
			2	OS200D11P	POA
				OS200D12P	246.76
250	145/170/250	0-1	4	OS200D22N2P	291.46
				OS250D11P	POA
			3	OS250D12P	304.54
400	230/280/400	0-2		OS250D22N2P	365.62
			2	OS400D11P	POA
				OS400D12P	451.48
630	355/450/630	3	4	OS400D22N2P	574.69
			2	OS630D11P	POA
				OS630D12P	821.06
800	450/560/710	3	4	OS630D22N2P	1065.04
				OS800D11P	POA
			3	OS800D12P	971.69
1250 ¹⁾ 1000 ²⁾	560/710/1000	4		OS800D22N2P	1400.26
			3	OS1250D11P	POA
		4a		OS1250D12P	1422.00
3	OS1250DA11P		POA		
	4	OS1250DA12P	POA		

Shafts, handles included as standard

Suitable for switches	Included shaft	Included handle	Included terminal bolts
OS200_P	OXp6X210	OHB65J6	M8x25
OS250_P	OXp6X210	OHB45J6	M10x30
OS400_P	OXp12X250	OHB95J12	M10x30
OS630...800_P	OXp12X280	OHB145J12	M12x40
OS1250_P	OXp12X395	OHB200J12	M12x50



Full range of product and technical information place this part number in a search engine and download

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F = Fused switched neutral
 N2 = Non-fused switched neutral on the right side
 N3 = Include a detachable neutral link integrated into the mechanism

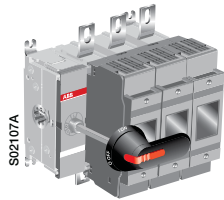
¹⁾ AC-20...22
²⁾ AC-23
³⁾ Max. fuse diameter 32 mm

Switch fuses

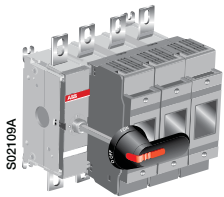
OS200 ...1250 DIN -type

Front operated switch fuses - Mechanism at the end of the switch

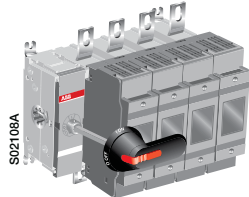
Including terminal bolt kit, a black ON-OFF plastic handle and shaft as standard. The handle is IP65 protected, padlockable in the OFF-position and with door interlock in the ON-position. The shaft is adjustable for a range of installation depths. OS1250DA: a fuse replacement tool is integrated in the fuse cover.



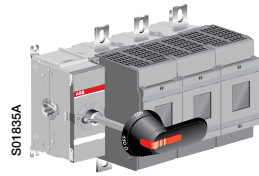
OS200D03P



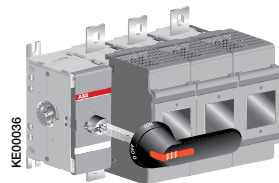
OS250D03N3P



OS250D04P



OS400D03P



OS630D03P



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1SCC301001C0201

Rated current AC-20...23 ≤ 690V [A]	Rated Power AC-23 400/500/690V [kW]	Fuse Size	No. of poles	Product Hierarchy 2100002	
				Order Code	Price
Protected tunnel terminals, IP20					
200	110/132/200	00	3	OS200DZ03P	POA
			4	OS200DZ04N2P	POA
200	110/132/200	0	2	OS200D02P	POA
			3	OS200D03P	236.38
			3+N	OS200D03N3P	261.37
			4	OS200D04N2P	303.66
			4	OS200D04FP	POA
250	145/170/250	0-1	2	OS250D02P	POA
			3	OS250D03P	304.54
			3+N	OS250D03N3P	330.44
			4	OS250D04N2P	395.29
			4	OS250D04FP	POA
400	230/280/400	0-2	2	OS400D02P	POA
			3	OS400D03P	430.14
			3+N	OS400D03N3P	480.53
			4	OS400D04N2P	574.69
			4	OS400D04FP	POA
630	355/450/630	3	2	OS630D02P	POA
			3	OS630D03P	741.01
			3+N	OS630D03N3P	912.29
			4	OS630D04N2P	934.09
			4	OS630D04FP	1061.86
800	450/560/710	3	2	OS800D02P	POA
			3	OS800D03P	1006.78
			3+N	OS800D03N3P	1523.31
			4	OS800D04N2P	1217.80
			4	OS800D04FP	POA
1250 ¹⁾ 1000 ²⁾	560/710/1000	4	2	OS1250D02P	POA
			3	OS1250D03P	1422.00
			3+N	OS1250D03N3P	POA
			4	OS1250D04N2P	POA
1250 ¹⁾ 1000 ²⁾	560/710/1000	4a	4	OS1250D04FP	POA
			2	OS1250DA02P	POA
			3	OS1250DA03P	POA
			3+N	OS1250DA03N3P	POA
			4	OS1250DA04N2P	POA
4	OS1250DA04FP	POA			

F = Fused switched neutral
 N2 = Non-fused switched neutral on the right side
 N3 = Include a detachable neutral link integrated into the mechanism

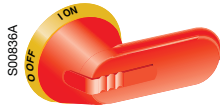
¹⁾ AC-20...22
²⁾ AC-23
³⁾ Max. fuse diameter 32 mm

Switch fuses accessories

Operating handles

For front operated switch fuses

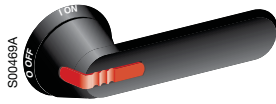
OH_handles: IP65, NEMA 1, 3R, 12, padlockable with three padlocks in OFF-position, door interlock in ON-position. Screw fixing from the back side of the handle. No screws on the front ensures double insulation. Excluding metallic handles.



OHY_



OHB_



OHB_



OTV_



OHB_

4

Product Hierarchy 2200003					
Colour	Handle Length [mm]	Suitable for switches	Order Code	Price	
For shaft diameter 6mm					
Black and red-yellow: I-O/ON-OFF, grey: I/O					
Black	45	OS Mini ... 250	OHB65J6	14.84	
Yellow-Red			OHY45J6	14.04	
Grey			OHG45J6	10.96	
Black	65		OHB65J6	16.94	
Yellow-Red			OHY65J6	14.84	
Grey			OHG65J6	14.85	
Black	80		OHB80J6	26.52	
Plastic handles, black and red/yellow: Test/I-O/ON-OFF, grey: Test/I-O					
Black	45		OS Mini ... 250	OHB45J6T	15.34
Yellow-Red	65	OHB65J6T		16.94	
Grey		OHY65J6T		16.94	
Black		OHG65J6T		POA	
Black	80	OHB80J6T		31.84	
Stainless steel handles: I-O/ON-OFF, padlockable with 3 padlocks in the OFF position, door interlock in the ON position, IP66 (NEMA 4X)					
Metallic	65	OS Mini ... 250	OHM65L6	183.12	
For shaft diameter 12mm					
Plastic handles, black and red/yellow: I-O/ON-OFF, grey: I-O					
Black	95	OT315...400	OHB95J12	47.80	
Yellow-Red			OHY95J12	55.11	
Grey			OHG95J12	46.42	
Indication: Test-OFF-ON/Test-O-I, padlockable with 3 padlocks in the OFF position, door interlock in the ON position, IP66 (NEMA 4X)					
Black	95	OT315...400	OHB95J12T	47.80	
Yellow-Red			OHY95J12T	55.11	
Plastic handles, black and red/yellow: I-O/ON-OFF, grey: I-O					
Black	125	OT630...800	OHB125J12	38.83	
Yellow-Red			OHY125J12	38.83	
Grey			OHG125J12	45.08	
Black	145		OHB145J12	38.83	
Yellow-Red			OHY145J12	38.83	
Grey			OHG145J12	POA	
Black	175		OHB175J12	40.96	
Yellow-Red			OHY175J12	40.96	
Grey			OHG175J12	POA	
Indication: Test-OFF-ON/Test-O-I					
Black	125	OT630...800	OHB125J12T	45.06	
Yellow-Red			OHY125J12T	63.86	
Black	145		OHB145J12T	45.06	
Yellow-Red			OHY145J12T	22.84	
Black	175		OHB175J12P	POA	
Plastic handles, black and red/yellow: I-O/ON-OFF					
Black	2x150	OT1200...1250	OHB150J12P	46.55	
Yellow-Red			OHY150J12P	53.55	
Black	2x200		OHB200J12P	49.64	
Yellow-Red			OHY200J12P	63.58	
Indication: Test-OFF-ON/Test-O-I					
Black	2x200	OT1200...1250	OHB200J12PT	43.82	
Yellow-Red			OHY200J12PT	POA	



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Switch fuses accessories

Operating handles

			Product Hierarchy 2200003	
Colour	Handle Length [mm]	Suitable for switches	Order Code	Price
For shaft diameter 12mm				
Stainless steel handles: I-O/ON-OFF, padlockable with 3 padlocks in the OFF position, door interlock in the ON position, IP66 (NEMA 4X)				
Metallic	125	OT1200...1250	OHM125J12	POA
	175		OHM175J12	POA
	275		OHM275J12	POA
Metallic handles: padlockable with 3 padlocks in the OFF position, door interlock in the ON position.				
Black 1-O	220	OT1200...1250	YASDA7	62.29
Black ON-OFF			YASDA8	62.29
Black I-O			YASDA35	69.40

Door interlocking in ON-position means that the door cannot be opened, when the handle is in the ON-position. This can be defeated in IP65 types to allow authorised personnel access for inspection

Direct mounted handles

Plastic handles, panel board handle, can be padlocked in the OFF-position. Includes a special shaft. The handle can also be used with a standard shaft as padlocking device.

For front operated OS Mini

Indication I-O/ON-OFF/TEST. Handle padlockable with 2 padlocks in the OFF- and Test-positions when the door is open. Max. bail dia 8 mm.

Colour	Order Code	Price
Black	OHBS5	7.38

For side operated OS Mini

Padlockable with three padlocks in the OFF- position when the door is open. Max. bail dia 6 mm.

Colour	Order Code	Price
Black	OHB4	13.90

For front operated OS 32G...1250

Test OFF-ON/Test O-I indication
Padlockable with three padlocks in the OFF-position, optionally also in the ON-position.
Includes shaft and mechanism cover.

Suitable for switches	Colour	Order Code	Price
OS32G...160G,	Black	OSV200BK	27.56
OS200B/J_K	Yellow-red	OSVY200BK	26.18
OS200D...250D/B_K	Black	OSV250DK	27.56
	Yellow-red	OSVY250DK	26.18
OS400D_K	Black	OSV400DK	29.89
	Yellow-red	OSVY400DK	29.89
OS315...400B/J_K	Black	OSV400BK	32.80
	Yellow-red	OSVY400BK	29.89
OS600...800_K	Black	OSV800DK	47.15
OS1200...OS1250_K	Black	OSV1250DK	POA

Fuse replacement handles

DIN fuse sizes	Description	Order Code	Price
000,00,1,2,3	Compact	OFAE 504	POA
	690 V	OFAE 505	POA

Extension ring for pistol type handles

Colour	Suitable for handles	Order Code	Price
Black	OHB_	OHZX14	11.33



Full range of product and technical information place this part number in a search engine and download

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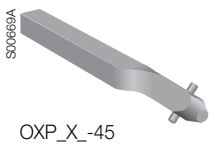
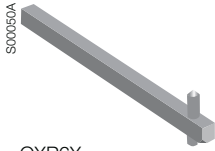
Switch fuses accessories

Extended shafts

Extended shafts

Product Hierarchy 2200003

Shaft (mm)	Front operated H / mm	Side operated H / mm	Order Code	Price
For OS 16...35 (Mini) ²⁾, shaft diameter 6 mm				
150	135...210	154...166	OSP6X150 ⁵⁾	2.80
170	155...230	174...186	OSP6X170	9.76
265	250...325	269...281	OSP6X265	POA
400	385...460	404...416	OSP6X400	6.30
150	135...210	154...166	OSP6X150-45 ¹⁾	4.45
170	155...230	174...186	OSP6X170-45 ¹⁾	9.76
265	380...460	269...281	OSP6X265-45 ¹⁾	POA
400	380...460	404...416	OSP6X400-45 ¹⁾	POA
For OS 40 (Mini) ²⁾, shaft diameter 6 mm				
150	135...210	235...243	OSP6X150 ⁵⁾	2.80
170	155...230	255...363	OSP6X170	9.76
265	250...325	352...360	OSP6X265	POA
400	385...460	487...495	OSP6X400	6.30
150	135...210	235...243	OSP6X150-45 ¹⁾	4.45
170	155...230	255...363	OSP6X170-45 ¹⁾	9.76
265	250...325	352...360	OSP6X265-45 ¹⁾	POA
400	385...460	487...495	OSP6X400-45 ¹⁾	POA
For OS 32G...63G ⁴⁾, shaft diameter 6 mm				
63		161...167	OSP6X63	POA
90		223 ... 229	OSP6X90	POA
130	137 ... 174 ⁷⁾	263 ... 263	OSP6X130	3.09
161	138 ... 205		OSP6X161 ³⁾	3.34
210	187 ... 254		OSP6X210	3.42
290	267 ... 334		OSP6X290	4.47
360	337 ... 404		OSP6X360	6.13
430	407 ... 474		OSP6X430	7.45
210	187 ... 254		OSP6X210-45 ¹⁾	5.17
290	267 ... 334		OSP6X290-45 ¹⁾	9.51
360	337 ... 404		OSP6X360-45 ¹⁾	12.13
For OS 200...250 DIN-type, shaft diameter 6 mm				
161	160 ... 205		OSP6X161	3.34
210	189 ... 254		OSP6X210 ³⁾	3.42
290	269 ... 334		OSP6X290	4.47
For OS 200...250 BS-type, shaft diameter 6 mm				
161	140 ... 205		OSP6X161	3.34
210	189 ... 254		OSP6X161	3.34
290	269 ... 334		OSP6X290	4.47



4



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¹⁾ The shaft position is rotated 45 degrees

²⁾ Side operated, 4-pole: add 36 mm

³⁾ Included as standard in P-types

⁴⁾ Side operated 3-pole OS60GJ: add 33mm, 4-pole types: OS32...63GD/GB: add 23.5 mm, OS60GJ: add 68mm

⁵⁾ Included as standard in front operated types

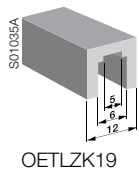
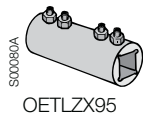
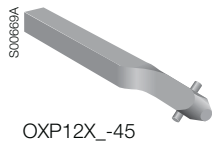
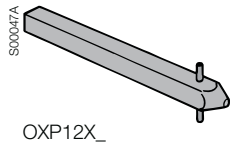
⁶⁾ OS32...63GB/GF: 115...174

⁷⁾ OS100GJ: 113...174, OS100GB...160GB: 121...174

⁸⁾ Side operated 4-pole types: add 35mm

Switch fuses accessories

Extended shafts



Extended shafts

Product Hierarchy 2200003

Shaft (mm)	Front operated H / mm	Order Code	Price
For OS 315...400, shaft diameter 12 mm			
250	230...325	OXP12X250 ²⁾	8.93
280	260...355	OXP12X280	9.20
325	305...400	OXP12X325	9.95
395	375...470	OXP12X395	10.89
465	445...540	OXP12X465	13.08
535	515...610	OXP12X535	18.26
For OS 630...800, shaft diameter 12 mm			
280	258...382	OXP12X280 ²⁾	13.81
325	303...427	OXP12X325	9.95
395	373...497	OXP12X395	10.89
465	443...567	OXP12X465	15.23
535	513...637	OXP12X535	18.26
280	258...382	OXP12X280-45 ¹⁾	13.81
325	303...427	OXP12X325-45 ¹⁾	14.92
For OS 1200...1250, shaft diameter 12 mm			
395	371...500	OXP12X395	10.89
465	441...570	OXP12X465	15.23
535	511...640	OXP12X535	18.26
Shaft extension socket - for extending the shaft of combination attachment.			
12 diameter		OETLZX95	29.28
Adapters for extension socket - adapters to place inside of OETLZX 95 to connect shafts of different sizes.			
6/6, 6/12		OETLZK19	18.66

4

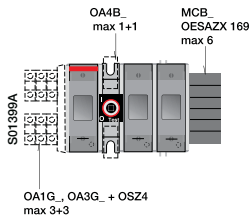


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Switch fuses accessories

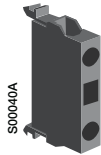
Auxiliary contacts



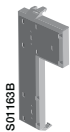
OS Mini



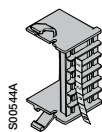
OA_G



MCB_



OSZ4



OESAZX169

4

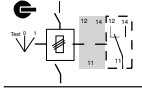
Auxiliary contacts

OS Mini

Auxiliary contacts for OS Mini

Mounting to the switch mechanism, auxiliary/test contacts. Max. two change over contacts.

Change-over contacts



		Handle position		Main contacts	Aux. / Test contacts N.O.	Order Code	Price
		Test	open	open	closed		
Single pole contacts > 3mm contact gap		0	gap	open	closed	OA4B1C	9.05
1NO				-3 -1	NO NC	OA4B10	9.11
1NC				-4 -2		OA4B01	9.11
Mounting on the side of the switch with aux. frame OESAZX169							
1NO				-3 -1	NO NC	MCB-10	POA
1NC				-4 -2		MCB-01	POA
Snap-on mounting on the switch, by using a frame OSZ4. IP20. NO contacts are provided with a positive opening feature. Units/type = 1 piece. Types _AU have gold plated contacts for harsh environments and low operating voltages.							
1NO				-3 -1	NO NC	OA1G10	5.89
1NC				-4 -2		OA3G01	5.89
1NO						OA1G10AU	7.57
1NC						OA3G01AU	7.57

Mounting frames for auxiliary contacts of OS Mini

Description	Order Code	Price
Frame for auxiliary contacts OA1G10 & OA3F01 & for fuse monitor. Max. 6 auxiliary contacts can be fitted.		
Mounting on the left side of the switch	OSZ4	3.75
Frame for MCB_ auxiliary contacts. Not suitable for side operated switches. Max. 6 auxiliary contacts can be fitted.		
Mounting on the right side of the switch	OESAZX169	5.31



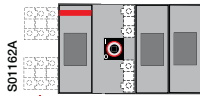
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Switch fuses accessories

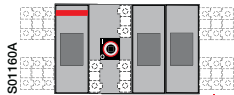
Auxiliary contacts

Auxiliary contacts for OS32G ... 1250

The "test" contacts operate in ON- and OFF-positions as well as when the handle is turned to TEST position = 45 degrees over the OFF-position. The "test indication" contacts operate only when the handle is turned to TEST-position. See the function table below. The OA1G10 (N.O.) or OA3G01 (N.C.) auxiliary contact blocks can be used as standard auxiliary contacts, "test" or "test indication" contacts. The desired functions are achieved when an auxiliary contact block is installed in a specific place shown in the mounting instruction. In order to activate the "test" and "test indication" features a handle with test function is required.



max 3+3 max 1+1
OS 30...60



max 3+3 max 1+1 max 3+3
max 1
OS 100...200

Handle position	Main contacts	Aux./Test contacts N.O.	Test indication contacts N.O.
Test	open	closed	closed
0	open	open	open
I	closed	closed	open

Maximum number of contact blocks, "Aux./test" contacts and "test indication" contacts, see the table below. Standard versions include all except for N3-types which are equipped with integrated neutral through the mechanism.

Maximum number of auxiliary contacts under the mechanism cover

Pole version	Standard	N3	Standard	N3	Standard	N3
Maximum number of contact blocks	4	0	8	4	12	8
Aux./Test contacts	4	0	4	2	8 ¹⁾	6 ²⁾
Test indication contacts	2	0	4	2	4	2

Auxiliary contacts for OS32G ... 1250

Mounting on the left side of the switch: Max. 8 auxiliary contact blocks with the OEA28 module.

Mounting under the mechanism cover: - OS200...250: Max 4 test contacts or 2 test contacts + 2 test indication contacts.

- OS315...400: Max 4 test contacts and 4 test indication contacts. The test contacts can be used as standard auxiliary contacts as well. Auxiliary contacts for 3 + N types only with the OEA28 module.



OEA28

OA_G_

Description	Product Hierarchy 2100004	
	Order Code	Price
Module for auxiliary contacts screw mounting to the left side of the switch	OEA28	10.20
1 NO contact block	OA1G10	5.89
1 NC contact block	OA3G01	5.89



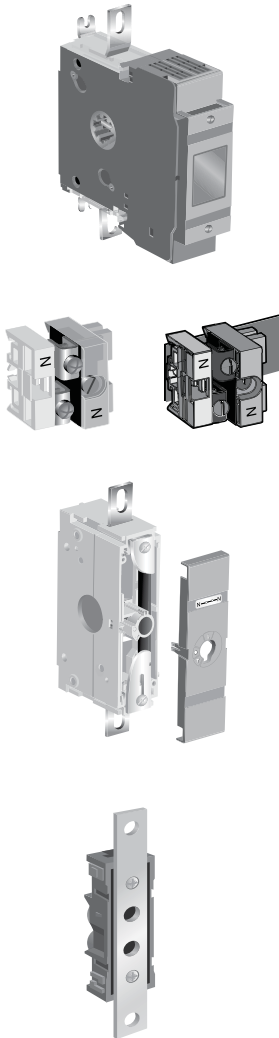
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Switch fuses accessories

4th poles

4



4th poles

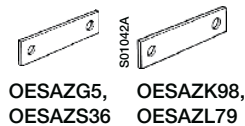
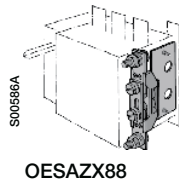
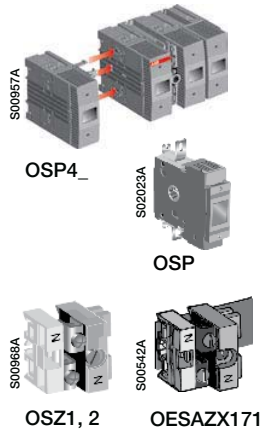
Suitable for switches		Mounting side		Product Hierarchy 2200003	
				Order Code	Price
Fusible 4 poles					
OS100GB ... 160GB	Left/right	OSP160GB	46.42		
OS125GD ... 160GD		OSP160GD	POA		
OS200B		OSP200B	61.63		
OS200D		OSP200D	61.63		
OS250B		OSP250B	81.31		
OS250D		OSP250D	81.31		
OS315B ... 400B		OSP400B	149.62		
OS400D		OSP400D	POA		
OS630 ... 800D		OSP800B	297.02		
OS630 ... 800B		OSP800D	297.02		
OS1250D		OSP1250D	POA		
OS1250DA		OSP1250DA	POA		
OS1250B		OSP1250DB	POA		
Switched 4 poles					
OS100G ... 160G	Left/right	OSP160GN	21.16		
OS200_		OSP200N	61.63		
OS250_		OSP250N	81.31		
OS400_		OSP400N	149.62		
OS630 ... 800		OSP800N	297.02		
OS1200 ... 1250		OSP1250N	POA		
For OS 200...250 DIN-type, shaft diameter 6 mm					
161	160 ... 205				
210	189 ... 254				
290	269 ... 334				
For OS 200...250 BS-type, shaft diameter 6 mm					
161	140 ... 205				
210	189 ... 254				
290	269 ... 334				



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Switch fuses accessories

Neutral links



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Neutral links

			Product Hierarchy 2100004	
Max. wire	H/W/D [mm]	Mounting holes	Order Code	Price
For OS Mini Detachable, mounting on the side of the switch, on the mounting plate or DIN-rail.				
16mm ² Cu	39/41/40	ø 4.2, distance 32	OESAZX171	9.87
For OS/OSM 32G ... 160G Detachable, mounting onto the base plate or DIN-rail.				
16mm ² Cu	39/41/40	ø 4.2, distance 32	OSZ1	7.63
35mm ² Cu	39/44/45	ø 4.2, distance 365	OSZ2	11.49
For OS/OSM 100G ... 1250 Mounting with screws (included) onto either side of the switch (OXN250 to OS200...250) or on the base plate (OXN250 to OS1250)				
OS/OSM32G ... 250			OXN250	34.34
OS/OSM315G ... 400			OXN400	54.83
OS/OSM630G ... 800			OXN800S	86.23
OS/OSM1250			OXN1250S	POA

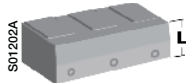
I _n [A]	Terminal size (WxD) [mm]; bolt size	Order Code	Price
Mounting separately to the base plate			
250	12x3 M6	OESAZX162	21.04
315	20x3 M81	OESAZX165	26.74
400	25x4 M10	OESAZX162	21.04
1000	40x5 M12	OESAZX160	90.11

Solid links

		Product Hierarchy 2100004	
Suitable for	Order Code	Price	
OS20FB...OS32FB_A1	OESAZG98	4.21	
OS32GD...OS160GD	OFAW000	POA	
OS32FB...A2...OS63GB	OESAZG5	5.18	
OS100GB...OS160GB	OESAZS36	9.19	
OS100GJ	OESAZS175	POA	
OS200...250B,J	OEZL1	20.00	
OS315...400B,J	OESAZK98	16.65	
OS630B...800B	OESAZL79	46.14	
OS600J, 800...1200L	OEZNL8	POA	
OS1250B	OEZNL810	POA	
OS250D	OFAW1	18.26	
OS400D	OFAW2	27.89	
OS630/800D	OFAW3	34.17	

Switch fuses accessories

Terminal shrouds



OSS160G3_



OSS160T1_



OSS_L



OSS_S

4

Terminal shrouds

Suitable Switch	Pieces	Handle Type	Product Hierarchy 2100004		
			Order Code	Price	
OS 100G ... 160G	3	Long type	OSS160GG1L/3	7.14	
		Short type	OSS160GG1S/3	6.55	
	4	Long type	OSS160GG1L/4	9.53	
		Short type	OSS160GG1S/4	8.74	
OS/OSM 200	3	Long type	OSS200G1L/3	16.59	
		Short type	OSS200G1S/3	15.91	
	4	Long type	OSS200G1L/4	22.13	
		Short type	OSS200G1S/4	20.38	
OS/OSM 250	3	Long type	OSS250G1L/3	17.87	
		Short type	OSS250G1S/3	16.59	
	4	Long type	OSS250G1L/4	23.81	
		Short type	OSS250G1S/4	22.97	
	OS/OSM 315...400	3	Long type	OSS400G1L/3	21.52
			Short type	OSS400G1S/3	20.87
4		Long type	OSS400G1L/4	28.68	
		Short type	OSS400G1S/4	27.82	
OS/OSM 630...800	3	Long type	OSS800G1L/3	38.81	
		Short type	OSS800G1S/3	24.84	
	4	Long type	OSS800G1L/4	48.48	
		Short type	OSS800G1S/4	30.96	
	OS 1200...1250/ OSM 1250_N3	3	Long type	OSS1250G1L/3	43.70
			Short type	OSS1250G1S/3	20.17
4		Long type	OSS1250G1L/4	54.35	
		Short type	OSS1250G1S/4	26.33	

Terminal shrouds suitable for mechanisms with detachable integrated neutral (N3 versions)

OS/OSM 100G...250_N3	1	Long type	OTS250G1L	6.91
		Short type	OTS250G1S	5.54
OS/OSM 315...400_N3		Long type	OSS250G1L	6.34
		Short type	OSS250G1S	5.76
OS/OSM 630...800_N3		Long type	OTS800G1L	17.95
		Short type	OTS800G1S	14.85
OS 1200...1250_N3/ OSM 1250_N3	Long type	OTS1600G1L	POA	
	Short type	OTS1600G1S	POA	

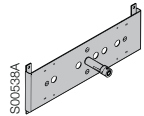


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Switch fuses accessories

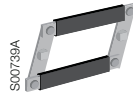
Conversion kits



OW_6DS_



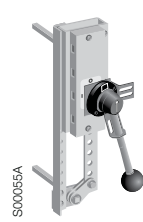
OESAZW2



OETLZW9



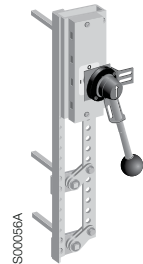
OTZW25,
OETLZW11



OETLZW12



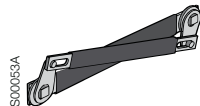
OTZW26



OETLZW13



OTZW10



OETLZW3, 14, 15



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For front operated combination switches

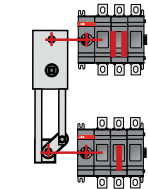
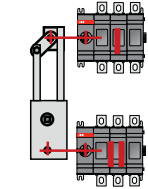
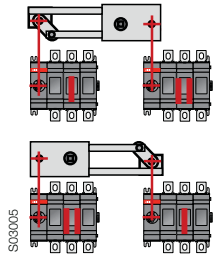
Product Hierarchy 2100004

Suitable for switches	Remarks	Shaft distance [mm]	Order Code	Price
6 and 8-pole switch mechanism Parallel attachment for connecting 3- and 4-pole switches. The switches work simultaneously.				
6-pole switches				
OS Mini	Two 3-pole switches needed		OWP6DS1	35.03
6-pole switches				
OS Mini	Two 4-pole switches needed		OWP6DS2	55.12
The attachment levers are provided with holes, enabling different shaft distances. The combination switches can be mounted either horizontally or vertically.				
OS32G-250	Two 3- or 4-pole switches needed	45+(0-13)x15	OESAZW2	65.43
OS315-400		60+(0-19)x20	OETLZW9	107.20
Change-over switch mechanism Two switches connected with a mechanism operating into I-O-II positions.				
OS Mini	Two 3-pole switches needed		OWC6DSH1	55.29
	Two 4-pole switches needed		OWC6DSH2	87.09
OS32G-250	Two 3- or 4-pole switches needed	210+(0 - 18)x20	OTZW25	173.99
OS315-400		210+(0 - 11)x20	OETLZW11	173.66
		210+(0 - 20)x20	OETLZW12	231.52
By-pass switch mechanism A combination of two switches in parallel with a third switch for change-over operation to pass- by, for example, a breaker for maintenance. The by-pass attachment can be used together with another combination attachment.				
OS32G - 250	Three 3- or 4-pole switches needed	Between 1 and 2: 210+(0 - 9)x20 Between 1 and 3: 250+(0 - 9)x20	OTZW26	203.16
OS315-400		Between 1 and 2: 210+(0 - 18)x20 Between 1 and 3: 250+(0 - 18)x20	OETLZW13	190.80
Mechanical interlock mechanism Prevents one switch from closing to ON -position, if the other is not in OFF - position. OTZW/OETLZW-types: When mounted upside down, prevents one switch from opening to OFF-position, if the other is not in the ON-position. (UPS-usage, make-before-break)				
OS Mini	Two 3-pole switches needed		OWM6DS1	POA
	Two 4-pole switches needed		OWM6DS2	POA
OS32G-250	Two 3- or 4-pole switches needed	190	OTZW10	34.06
OS315-800		250	OETLZW14	37.52
OS315-800		300	OETLZW3	41.17
OS315-1250		500	OETLZW15	43.10

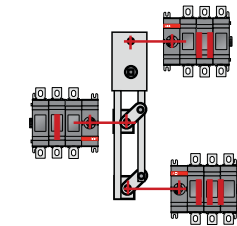
Switch fuses accessories

Conversion kits & locks

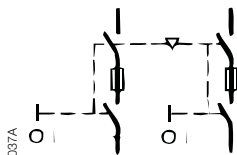
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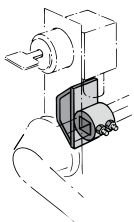
Change-over switches



By-pass switches



Mechanical interlock



OETLZW5

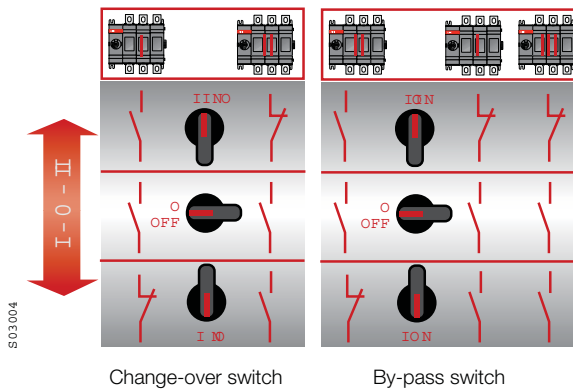


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The shafts and handles for conversion kits

Conversion kit type	To be ordered separately		Included in the conversion kit delivery		The standard handle or shaft of one of the combined switches can be used	
	Shaft	Handle	Shaft	Handle	Shaft	Handle
6 and 8-pole switches						
OWP6DS1	x	-	-	-	-	x
OWP6DS2	x	-	-	-	-	x
OESAZW2	-	-	x (2 pcs)	OHB145J12	-	-
OETLZW9	-	-	-	-	x	x
Change-over switches						
OWC6DSH1	x (length min. 170mm)	-	-	OHB65J6E011	-	-
OWC6DSH2	x (length min. 170mm)	-	-	OHB65J6E011	-	-
OTZW25	-	-	x (2 pcs)	OHB95J12E011	-	-
OETLZW11	-	-	x (2 pcs)	OHB145J12E011	-	-
OETLZW12	-	-	x (2 pcs)	YASDA21	-	-
By-pass switches						
OTZW26	-	-	x (3 pcs)	OHB95J12E011	-	-
OETLZW13	-	-	x (3 pcs)	YASDA 6	-	-
Mechanical interlock						
OWM6DS1	x (2 pcs, length min. 170mm)		x (2 pcs)	-	-	-
OWM6DS2	x (2 pcs, length min. 170mm)		x (2 pcs)	-	-	-
OTZW10	-	-	-	-	x	x
OETLZW14	-	-	-	-	x	x
OETLZW3	-	-	-	-	x	x
OETLZW15	-	-	-	-	x	x

The functional diagram



Cam attachment

Suitable for switches

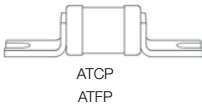
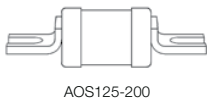
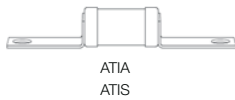
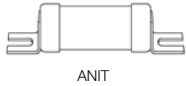
- OS16 ... 250
- OS 315 ... 1250

Product Hierarchy 2300001

	Order Code	Price
OS16 ... 250	OELTZW16	44.74
OS 315 ... 1250	OELTZW5	31.35

Switch fuses

BS 88 fuses



Fuse Size	Product Hierarchy 2000002	
	Order Code	Price
2A A1 fuselink	ANIT2	1.50
4A A1 fuselink	ANIT4	1.50
6A A1 fuselink	ANIT6	1.50
10A A1 fuselink	ANIT10	1.50
16A A1 fuselink	ANIT16	1.50
20A A1 fuselink	ANIT20	2.02
25A fuselink	ANIT25	2.15
32A fuselink	ANIT32	2.15
2A A2 fuselink	ATIA2	2.41
4A A2 fuselink	ATIA4	2.41
6A A2 fuselink	ATIA6	2.41
10A A2 fuselink	ATIA10	2.41
16A A2 fuselink	ATIA16	2.41
20A A2 fuselink	ATIA20	2.66
25A A2 fuselink	ATIA25	2.85
32A A2 fuselink	ATIA32	2.85
35A A3 fuselink	ATIS35	4.52
40A A3 fuselink	ATIS40	4.52
50A A3 fuselink	ATIS50	4.52
63A A3 fuselink	ATIS63	4.82
80A fuselink	AOS80	5.11
100A fuselink	AOS100	5.63
125A fuselink	AOS125	11.71
160A fuselink	AOS160	12.89
200A fuselink	AOS200	13.49
80A A4 fuselink	ATCP80	6.88
100A A4 fuselink	ATCP100	6.88
125A fuselink	ATFP125	11.81
160A fuselink	ATFP160	12.89
200A fuselink	ATFP200	13.48

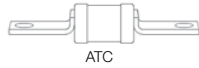
4



Full range of product and technical information place this part number in a search engine and download
1SCC301001C0201

Switch fuses

BS 88 fuses



ATC

4



ATF
ATKF
ATMF
ATKM

Fuse Size	Product Hierarchy 2000002	
	Order Code	Price
80A B1 fuselink	ATC80	6.88
100A B1 fuselink	ATC100	6.88
125A B2 fuselink	ATF125	11.74
160A B2 fuselink	ATF160	12.89
200A B2 fuselink	ATF200	13.49
250A B3 fuselink	ATKF250	17.02
315A B3 fuselink	ATKF315	18.98
355A B4 fuselink	ATMF355	23.81
400A B4 fuselink	ATMF400	25.27
450A Fuselink Fixing Centre: 111	ATMF450	36.91
500A Fuselink Fixing Centre: 111	ATMF500	39.55
560A Fuselink Fixing Centre: 111	ATMF560	41.04
630A Fuselink Fixing Centre: 111	ATMF630	43.34
250A fuselink	ATKM250	17.02
315A fuselink	ATKM315	18.98
355A C1 fuselink	ATM355	23.81
400A C1 fuselink	ATM400	25.27
450A C2 fuselink	ATTM450	36.91
500A C2 fuselink	ATTM500	39.40
630A C2 fuselink	ATTM630	43.34
800A C3 fuselink	ATLM800	98.10
2A F1 fuselink	ANS2	1.51
4A F1 fuselink	ANS4	1.51
6A F1 fuselink	ANS6	1.51
10A F1 fuselink	ANS10	1.51
16A F1 fuselink	ANS16	1.51
20A F1 fuselink	ANS20	1.82
25A F1 fuselink	ANS25	2.15
20A F2 fuselink	AES20	2.37
25A F2 fuselink	AES25	2.63
32A F2 fuselink	AES32	2.63
40A F2 fuselink	AES40	3.16
50A F2 fuselink	AES50	3.39
63A F2 fuselink	AES63	4.17



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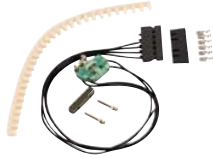
Slimline XR

Slimline switch fuses and accessories



XR Switch Fuse 3-pole - 185mm busbar distance BS - British Standard

Description	Product Hierarchy 2300001	
	Order Code	Price
XR Slimline 63A 3P	1SEP102244R3300	217.33
XR Slimline 100A 3P	1SEP102245R3300	268.62
XR Slimline 160A 3P	1SEP102246R3300	363.23
XR Slimline 250A 3P	1SEP102247R3300	391.41
XR Slimline 400A 3P	1SEP102248R3300	721.34
XR Slimline 630A 3P	1SEP102249R3300	978.88



Accessories		
Description	Order Code	Price
XR 50mm Ventilated Blind Cover	1SEP408528R0001	29.01
XR 00 Auxillary Switch 1NO	1SEP408504R0001	51.16
XR 00 Auxillary Switch 1NC	1SEP408505R0001	51.16
XR 1 Auxillary Switch 1NO	1SEP408506R0001	51.16
XR 1 Auxillary Switch 1NC	1SEP408507R0001	51.16
XR 2/3 Auxillary Switch 1NO	1SEP408508R0001	51.16
XR 2/3 Auxillary Switch 1NC	1SEP408509R0001	51.16
XR Single Auxillary Switch 1NO	1SEP407742R0013	8.41
XR 63A - 160A 3P Shroud Size 0	1SEP408496R0001	45.30
XR 250A 3P Shroud Size 1	1SEP408497R0001	53.23
XR 400A/630A Shroud Size 2/3	1SEP408498R0001	92.30

4

XR-E Switch fuse 4-pole - 185mm busbar distance BS - British Standard



Type designation	Product Hierarchy 2300001	
	Order Code	Price
160A BS 185mm 4 Pole AC23B	1SEP102246R3400	533.77
250A BS 185mm 4 Pole AC23B	1SEP102247R3400	636.90
400A BS 185mm 4 Pole AC23B	1SEP102248R3400	1289.19
630A BS 185mm 4 Pole AC23B	1SEP102249R3400	1312.75

Accessories		
Description	Order Code	Price
63A - 160A Terminal Extension 3 pieces	1SEP408523R0001	105.39
250A Terminal Extension 3 pieces	1SEP408525R0001	109.51
4Pole Cable Shroud Size SR00-3	1SEP407775R0001	9.15
SRM Busbar Support	NHP 343139P0001	49.15



Full range of product and technical information place this part number in a search engine and download
1SEC3#1001C0201

Cam switches

Front mounted



4

Screw mounting also available.

All switches available without an escutcheon & with a round front ring only, call sales for details or visit cam web design platform <https://a.saleconfigurator.com>.

Description	Product Hierarchy 4000003	
	Order Code	Price
10A 1P 0-1 Mini Cam Switch	OMA1PB	10.60
10A 2P 0-1 Mini Cam Switch	OMA2PB	10.71
10A 3P 0-1 Mini Cam Switch	OMA3PB	15.22
25A 2P 0-1 Mini Cam Switch	ONA2PB	11.39
25A 3P 0-1 Mini Cam Switch	ONA3PB	13.96
25A 1P On-Off switch, round front ring	ONA1XB	9.61
25A 2P On-Off switch, round front ring	ONA2XB	11.20
25A 3P On-Off switch, round front ring	ONA3XB	13.73
10A 1P 0-1 Mini Key Op Cam Switch	OMA1KB	25.99
10A 3P 0-1 Mini Key Op Cam Switch	OMA3KB	30.72
25A 3P Key Op C/O Cam switch, 1-0-2	ONU3KB	31.95
25A 1P C/O Cam sw/ rnd frnt rng, 1-2	ONWS1XB	13.16
25A 2P C/O Cam sw/ rnd frnt rng, 1-2	ONWS2XB	15.75
25A 3P C/O Cam sw/ rnd frnt rng, 1-2	ONWS3XB	21.34
10A 1P 1-0-2 Mini Changeover Cam switch	OMU1PB	10.71
10A 2P 1-0-2 Mini Changeover Cam switch	OMU2PB	14.64
10A 3P 1-0-2 Mini Changeover Cam switch	OMU3PB	18.58
25A 1P 1-0-2 Mini Changeover Cam switch	ONU1PB	11.39
25A 2P 1-0-2 Mini Changeover Cam switch	ONU2PB	15.62
25A 3P 1-0-2 Mini Changeover Cam switch	ONU3PB	19.80
10A 1P 1-2 Mini Changeover Cam switch	OMWS1PB	12.25
10A 3P 1-2 Mini Changeover Cam switch	OMWS3PB	22.21
10A 2P 1-2 Mini Changeover Cam switch	ONWS2PB	15.78
10A 3P 1-2 Mini Changeover Cam switch	ONWS3PB	20.54
25A 1P Key Op C/O Cam switch, 1-0-2	ONU1KB	30.72
10A 1P, 2 Step, Multistep Switch 0-1-2	OMSO21PB	10.71
10A 1P, 3 Step, Multistep Switch 0-1-2-3	OMSO31PB	13.08
10A 2P, 3 Step, Multistep Switch 0-1-2-3	OMSO32PB	18.58
25A 1P, 2 Step, Multistep Switch 0-1-2	ONSO21PB	11.39
25A 2P, 2 Step, Multistep Switch 0-1-2	ONSO22PB	15.62
25A 3P, 2 Step, Multistep Switch 0-1-2	ONSO23PB	25.99
25A 2P, 3 Step, Multistep Switch 0-1-2-3	ONSO32PB	19.80
25A 3P, 3 Step, Multistep Switch 0-1-2-3	ONSO33PB	26.55
25A 1P 4 Step Multistep Switch 1-2-3	ONSO41PB	15.62
25A 2P 4 Step Multistep Switch 1-2-3	ONSO42PB	32.34
25A 2P IP65 Enc 0-1 Cam Switch	ONA2EPB	18.79
25A 3P IP65 Enc 0-1 Cam Switch	ONA3EPB	21.11



Full range of product and technical information place this part number in a search engine and download

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Enclosures

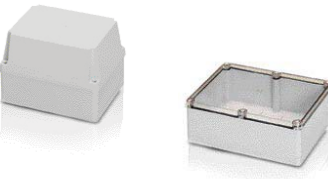


Enclosures

Overview 5/2

Sheet steel

Sheet steel IP65 5/4



Insulated

Adaptable boxes 5/6

Modular units 5/8

Switchboards 5/10

Gemini weather proof enclosures 5/11



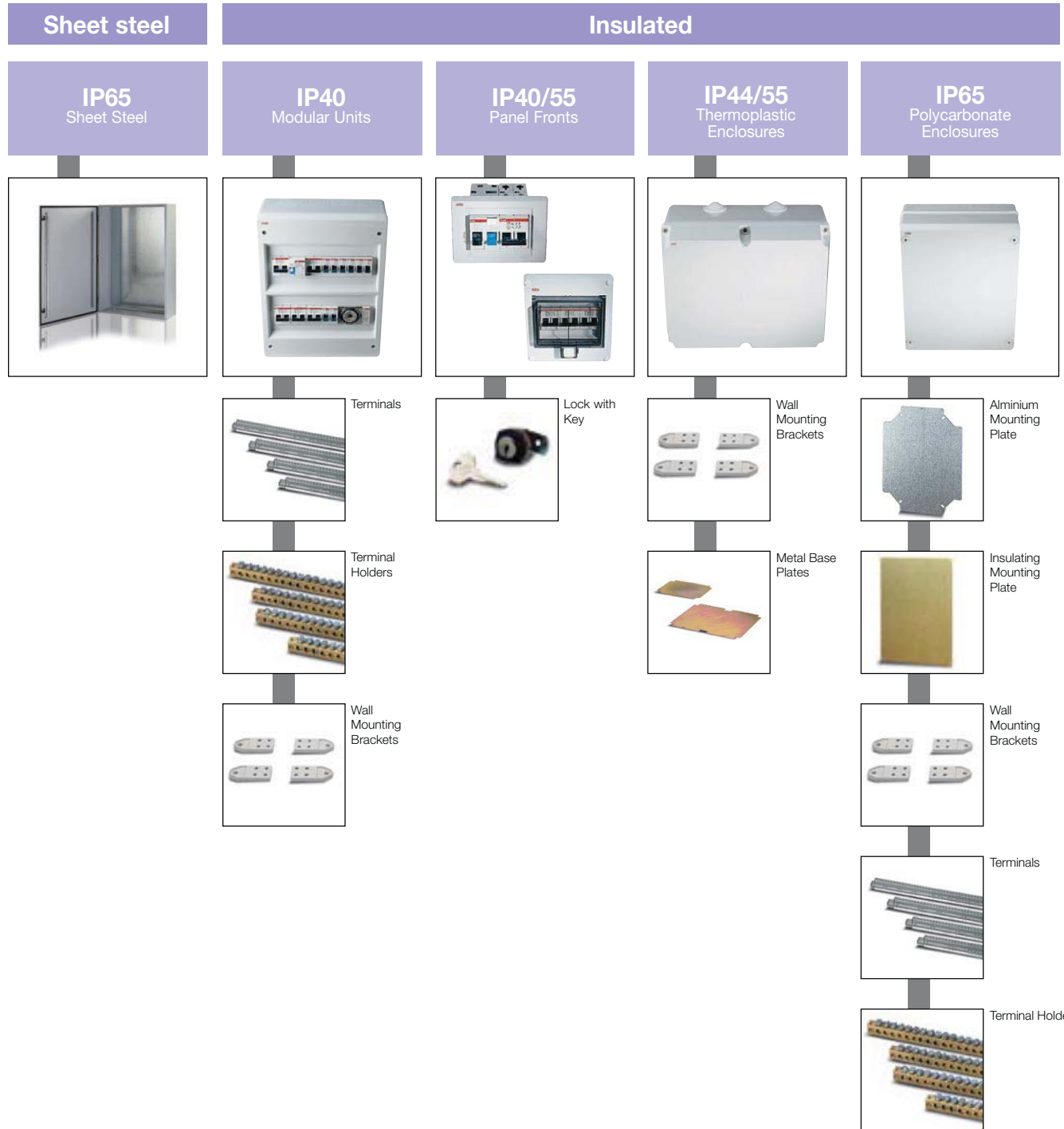
Slotted trunking

Slotted trunking 5/16



Enclosures - IP40 - IP66

Overview



5

Insulated

IP55
Modular Unit

IP55
Modular Unit
Multiple Door

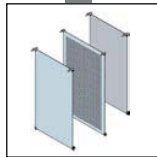
IP66
Gemini Range



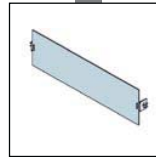
Neutral Terminals



Terminals



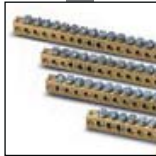
Mounting Plates



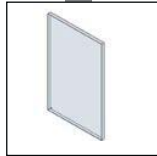
Plain Rear Plates



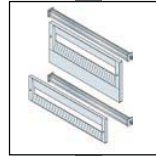
Wall Mounting Brackets



Terminal Holders



Full Height Inner Door



MCB Kits



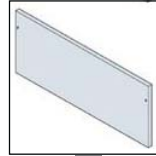
Lock with Key



Wall Mounting Brackets



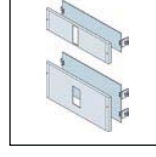
Enclosure Uprights



Plain Inner Door



Screw Lead Sealing Accessory



T-Max Mounting Kit



Lock with Key

Enclosures

IP65 sheet steel enclosure (For external use please consult us)

Colour: RAL7035 (orange Peel)



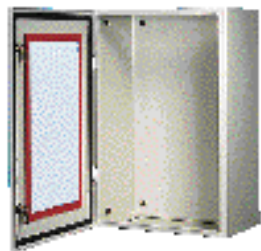
Solid Door Enclosures IP65 - Nema 4, 12 & 13 Top & Bottom Gland Plates including Mounting Plate

Description H x W x D	Product Hierarchy 3200003	
	Order Code	Price
300 x 200 x 150	SRN3215K	41.81
300 x 300 x 150	SRN3315K	45.60
300 x 400 x 150	SRN3415K	52.19
400 x 300 x 150	SRN4315K	51.37
400 x 300 x 200	SRN4320K	54.11
400 x 200 x 200	SRN4420K	58.91
400 x 600 x 200	SRN4620K	85.61
500 x 300 x 200	SRN5320K	63.42
500 x 400 x 200	SRN5420K	70.40
500 x 400 x 250	SRN5425K	74.21
600 x 400 x 200	SRN6420K	85.61
600 x 400 x 250	SRN6425K	91.32
600 x 500 x 200	SRN6520K	119.44
600 x 640 x 300	SRN6630K	157.34
800 x 600 x 250	SRN6625K	109.71
600 x 600 x 250	SRN7520K	109.71
700 x 500 x 200	SRN7525K	116.06
700 x 500 x 250	SRN8625K	149.68
800 x 600 x 300	SRN8630K	159.18
800 x 800 x 300	SRN8830K	173.02
1000 x 600 x 250	SRN10625K	192.17
1000 x 600 x 300	SRN10630K	211.20
1000 x 800 x 300	SRN10830K	242.88
1200 x 600 x 300	SRN12630K	249.88
1200 x 800 x 300	SRN12830K	268.27
1200 x 800 x 400	SRN12840K	379.29

5

Glazed Door Enclosures IP65 - Nema 4, 12 & 13

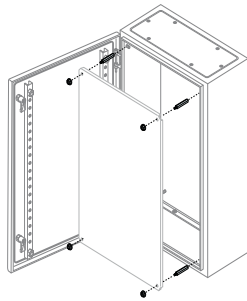
Top & Bottom Gland Plates included - Mounting Plate Sold Separately



500 x 400 x 200	SRN5420VK	94.48
500 x 400 x 250	SRN5425VK	98.95
600 x 400 x 200	SRN6420VK	113.53
600 x 400 x 250	SRN6425VK	119.87
800 x 600 x 250	SRN8625VK	178.20
700 x 500 x 200	SRN7520VK	132.28
700 x 500 x 250	SRN7525VK	139.52
800 x 600 x 250	SRN8625VK	178.20
800 x 600 x 300	SRN8630VK	201.04
1000 x 600 x 250	SRN10625VK	227.69
1000 x 600 x 300	SRN10630VK	246.71
1000 x 800 x 300	SRN10830VK	272.71
1200 x 600 x 300	SRN12630VK	279.05
1200 x 800 x 300	SRN12830VK	298.07

Enclosures

IP65 sheet steel enclosure



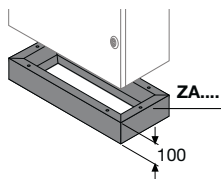
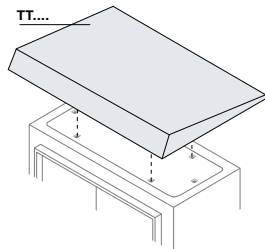
Mounting Plates

For enclosure	Hmm x Wmm	Product Hierarchy 3200003	
		Order Code	Price
SRN5420 & SRN5425	500 x 400	PF5040	17.17
SRN6420 & SRN6425	600 x 400	PF6040	22.83
SRN7520 & SRN7525	700 x 500	PF7050	32.34
SRN8625 & SRN8630	800 x 600	PF8060	41.80
SRN10625 & SRN10630	1000 x 600	PF1060	52.19
SRN10830	1000 x 800	PF1080	66.60
SRN12630	1200 x 600	PF1260	75.94
SRN12830	1200 x 800	PF1280	82.21

Rainhoods To improve protection against sprays of water.

Wmm x Dmm

200 x 150	TT2015	35.96
300 x 150	TT3015	38.74
400 x 150	TT4015	42.50
300 x 200	TT3020	39.77
400 x 200	TT4020	46.29
500 x 200	TT5020	56.00
600 x 200	TT6020	63.42
400 x 250	TT4025	45.29
500 x 250	TT5025	61.69
600 x 250	TT6025K	91.07
600 x 300	TT6030K	97.45
600 x 300	TT8030K	82.44



Plinths 100mm height

Wmm x Dmm

400 x 200	ZA4020	44.78
400 x 250	ZA4025	POA
600 x 250	ZA6025	56.00
600 x 300	ZA6030	56.79



IP55 Combining Gasket

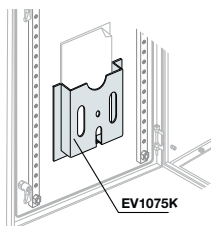
Hmm x Dmm

400 x 200	GZ4020	6.79
400 x 250	GZ4025	7.61
600 x 250	GZ6025	9.51
600 x 300	GZ6030	10.60

Accessories

Description

Document pocket	AA5600	15.37
N.4 wall mounting brackets	AA1206	6.15
Double tongue 7mm lock with DIN 5mm plastic key	AA8001	6.79
Lock with Yale insert & key	AA8002	15.23
T handle with Yale insert and key	AA8003	20.96
RAL7035 400ml spray can	VB7035	13.21



Enclosures - IP44 & 55 Thermoplastic Adaptable Boxes



IP44 Box

Size	Description	Product Hierarchy 3100007	
		Order Code	Price
ø65 - H35	round with glands & press on lid	00800	0.81
ø80 - H40	round with glands & press on lid	00802	1.00
65 x 65 x 32	with glands & screw on lid	00808	1.09
80 x 80 x 40	with glands & screw on lid	00810	1.23
100 x 100 x 50	with glands & screw on lid	00816	2.30
105 x 70 x 50	with glands & screw on lid	00820	2.09
100 x 100 x 80	with glands & screw on lid	00821	2.31
153 x 110 x 66	with glands & low screw on lid	00822	3.94
160 x 135 x 77	with glands & low screw on lid	1SL0824A00	7.03
220 x 170 x 80	with glands & low screw on lid	1SL0826A00	9.11
310 x 240 x 110	with glands & low screw on lid	1SL0828A00	16.66
160 x 135 x 150	with glands & high screw on lid	1SL0830A00	8.15
220 x 170 x 150	with glands & high screw on lid	1SL0832A00	12.81
310 x 240 x 160	with glands & high screw on lid	1SL0834A00	22.03

IP55 Box

Size	Description	Product Hierarchy 3100007	
		Order Code	Price
100 x 100 x 50	with smooth walls & low screw-on lid	00846	2.15
105 x 70 x 50	with smooth walls & low screw-on lid	00850	2.25
100 x 100 x 80	with smooth walls & low screw-on lid	00851	2.54
153 x 110 x 66	with smooth walls & low screw-on lid	00852	3.03
160 x 135 x 77	with smooth walls & low screw-on lid	1SL0854A00	5.52
220 x 170 x 80	with smooth walls & low screw-on lid	1SL0856A00	8.13
310 x 240 x 110	with smooth walls & low screw-on lid	1SL0858A00	14.85
153 x 110 x 66	with smooth walls & transparent low screw-on lid	00872	5.79
160 x 135 x 150	with smooth walls & transparent high screw-on lid	00880	POA
220 x 170 x 150	with smooth walls & transparent low screw-on lid	1SL0882A00	15.83
310 x 240 x 160	with smooth walls & transparent high screw-on lid	1SL0884A00	24.80
160 x 135 x 150	with smooth walls & high screw-on lid	1SL0860A00	6.69
220 x 170 x 150	with smooth walls & high screw-on lid	1SL0862A00	11.09
310 x 240 x 160	with smooth walls & high screw-on lid	1SL0864A00	18.32
160 x 135 x 70	with smooth walls & transparent low screw-on lid	1SL0874A00	7.11
220 x 170 x 80	with smooth walls & transparent low screw-on lid	1SL0876A00	12.05
310 x 240 x 110	with smooth walls & transparent low screw-on lid	1SL0878A00	21.22

5

Enclosures - IP65 in Polycarbonate Adaptable Boxes



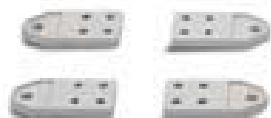
IP65 Polycarbonate Enclosure

Size HxWxD	Product Hierarchy 3100007	
	Order Code	Price
220 x 140 x 140	12804	14.70
220 x 205 x 140	12808	16.82
220 x 275 x 140	12812	19.70
370 x 275 x 140	12814	27.87
570 x 275 x 140	12816	40.88
570 x 380 x 140	12818	49.36



Aluminium Mounting Plate

For Enclosure Type	Product Hierarchy 3100007	
	Order Code	Price
12804	12842	2.92
12808	12844	3.91
12812	12845	5.42
12814	12846	7.92
12816	12847	9.63
12818	12848	14.34



Wall Mounting Brackets

For Enclosure Type	Product Hierarchy 3100007	
	Order Code	Price
Fits All	12858	5.91

Enclosures - IP40, IP55, IP65

Modular Units



IP40 Polycarbonate

No. Modules	Size W x H x D	Product Hierarchy 3100007	
		Order Code	Price
2	100 x 160 x 85	12702	3.52
4	140 x 220 x 110	12704	6.90
8	205 x 220 x 110	12708	11.25
12	275 x 220 x 110	12712	12.42
24	275 x 370 x 110	12714	28.42
36	275 x 570 x 110	12716	42.32



IP55 Thermoplastic

No. Modules	Size W x H x D	Product Hierarchy 3100007	
		Order Code	Price
4	125 x 180 x 105	12644	9.95
6	160 x 180 x 105	12646	13.75
10	230 x 180 x 105	12650	21.33
20	230 x 320 x 135	12652	36.62
10 - special	250 x 320 x 135	12654	31.28



IP65 Polycarbonate Solid Door

No. Modules	Size W x H x D	Product Hierarchy 3100007	
		Order Code	Price
8	205 x 220 x 140	12728	16.76
12	275 x 220 x 140	12732	21.33
24	380 x 220 x 140	12733	24.37
36	275 x 370 x 140	12734	36.63



IP65 Polycarbonate Clear Door

No. Modules	Size W x H x D	Product Hierarchy 3100007	
		Order Code	Price
4	140 x 220 x 140	12744	12.36
8	205 x 220 x 140	12748	15.98
12	275 x 220 x 140	12752	21.33
18	380 x 220 x 140	12753	24.37
24	275 x 370 x 140	12754	36.62
36	275 x 570 x 140	12756	54.39



IP65 Polycarbonate Multiple Doors

No. Modules	Size W x H x D	Product Hierarchy 3100007	
		Order Code	Price
2/4	100 x 160 x 100	12742	9.63
8	205 x 220 x 140	12743	15.59
12	275 x 220 x 140	12745	21.33
24	275 x 370 x 140	12746	36.63
36	275 x 570 x 140	12747	54.39



Enclosures - IP40, IP55, IP65

Modular Units Accessories



Recommended Terminals & Terminal Holders Quantities

For Switchboard type	Product Hierarchy 3100007			
	Terminal Holders		Terminals	
	Order Code	Price	Order Code	Price
12704	12538 (x2)	3.86	12531 (x2)	1.50
12708	12539 (x2)	4.33	12531 (x2)	1.50
12712	12540 (x1)	5.01	12531 (x2)	1.50
			12532 (x1)	2.31
12714	12540 (x2)	5.01	12533 (x2)	3.08
12716	12540 (x2)	5.01	12534 (x2)	3.43
12724 - 12744	12538 (x2)	3.86	12531 (x2)	1.50
12728 - 12748	12539 (x2)	4.33	12531 (x2)	1.50
12732 - 12752	12540 (x1)	5.01	12531 (x2)	1.50
			12532 (x1)	2.31
12733 - 12753	12543 (x1)	9.67	12531 (x1)	1.50
			12535 (x1)	3.67
12735 - 12755	12543 (x2)	9.67	12534 (x2)	3.43
12736 - 12756	12540 (x2)	5.01	12534 (x2)	3.43
12738 - 12758	12543 (x2)	9.67	12535 (x2)	3.67
12743	12539 (x2)	4.33	12531 (x2)	1.50
12745	12540 (x1)	5.01	12531 (x1)	1.50
			12532 (x1)	2.31
12746	12540 (x2)	5.01	12533 (x2)	3.08
12747	12540 (x2)	5.01	12534 (x2)	3.43

(x) Quantity Required

5



Terminal Blocks

For Switchboard type	Neutral terminals	Earth terminals	Product Hierarchy 3100007	
			Order Code	Price
12 644 - 12 684	2x4.5 + 3x5.6	2x4.5 + 3x5.6	12880	6.48
12 646 - 12 686	6x4.5 + 5x5.6	2x4.5 + 3x5.6	12882	6.93
12 650 - 12 690	6x4.5 + 5x5.6	2x4.5 + 3x5.6	12884	12.00
12 652 - 12 692 - 12 654	2 (6x4.5 + 5x5.6)	2 (2x4.5 + 3x5.6)	12886	6.06



Accessories

Description	Product Hierarchy 3100007	
	Order Code	Price
Wall Mounting Brackets for Box	12658	13.17



Enclosures - Polycarbonate

IP65 Switchboards - IP40 & IP55 Panel Fronts



IP40 Front Panel

No. Modules	Size HxWxD	Product Hierarchy 3100007	
		Order Code	Price
2	9012362	12362	5.18
3	9012362	12363	6.59
4	9012362	12364	8.03

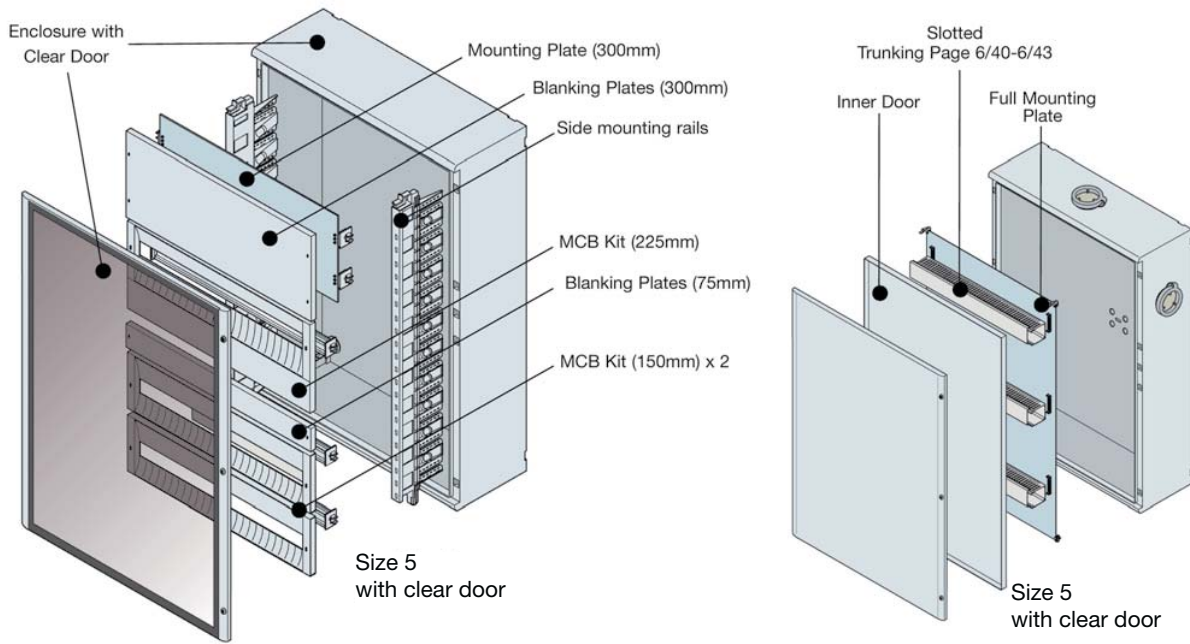


IP55 Front Panel

No. Modules	Size HxWxD		
4	180 x 125 x 34	12658	13.17
6	180 x 160 x 34	12659	15.66
10	180 x 230 x 34	12660	19.23

Enclosures

IP66 Gemini weather proof range



Gemini Enclosures

Components are suitable for any type and size of enclosure



Enclosure with Plain Door

Size HxWxD	Usable Height	Size	Product Hierarchy 3100007	
			Order Code	Price
400 x 335 x 210	300	1	1SL0201A00	86.78
550 x 460 x 260	450	2	1SL0202A00	132.42
700 x 460 x 260	600	3	1SL0203A00	168.11
700 x 590 x 260	600	4	1SL0204A00	199.89
855 x 590 x 360	750	5	1SL0205A00	300.49
1005 x 840 x 360	900	6	1SL0206A00	582.87

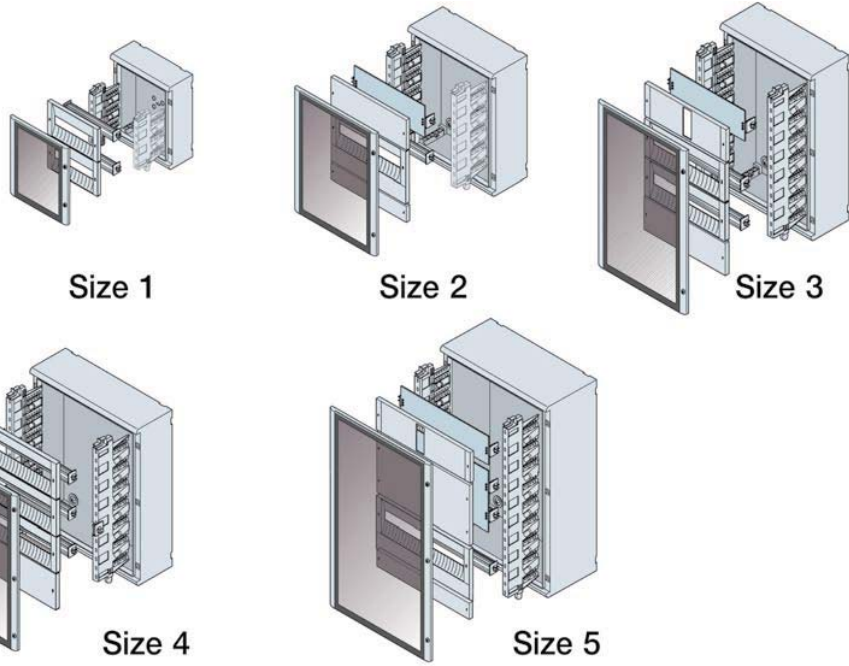


Enclosure with Plain Door

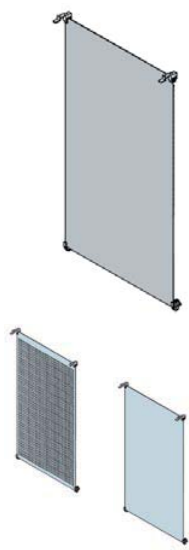
Size HxWxD	Usable Height	Size	Product Hierarchy 3100007	
			Order Code	Price
400 x 335 x 210	300	1	1SL0211A00	105.86
550 x 460 x 260	450	2	1SL0212A00	153.81
700 x 460 x 260	600	3	1SL0213A00	183.82
700 x 590 x 260	600	4	1SL0214A00	241.12
855 x 590 x 360	750	5	1SL0215A00	321.84
1005 x 840 x 360	900	6	1SL0216A00	619.00

Enclosures

IP66 Gemini weather proof range



5



Full Mounting Plates

Size HxW	Size	Product Hierarchy 310007	
		Order Code	Price
285 x 235	1	1SL0259A00	9.14
435 x 360	2	1SL0260A00	14.21
585 x 360	3	1SL0261A00	19.32
585 x 485	4	1SL0262A00	25.30
735 x 485	5	1SL0263A00	36.62
885 x 735	6	1SL0264A00	70.63

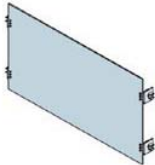
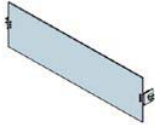
Also available:

- Perforated Mounting Plates suitable for use with floating nuts.
- Insulated Mounting Plates.

Please consult us for availability

Enclosures

IP66 Gemini weather proof range



Mounting Plates

Mounting Plates			Product Hierarchy 3100007	
Size HxW	Nominal Size	Size	Order Code	Price
130 x 210	150	1	1SL0296A00	7.03
130 x 318	150	2	1SL0297A00	9.14
130 x 318	150	3	1SL0297A00	9.14
130 x 443	150	4	1SL0298A00	12.12
130 x 443	150	5	1SL0298A00	12.12
130 x 663	150	6	1SL0299A00	22.13
280 x 318	300	2	1SL0302A00	18.44
280 x 318	300	3	1SL0302A00	18.44
280 x 443	300	4	1SL0303A00	22.90
280 x 443	300	5	1SL0303A00	22.90
280 x 663	300	6	1SL0304A00	40.42

Side Mounting Rails

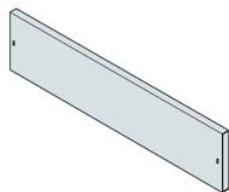
Side Mounting Rails			Product Hierarchy 3100007	
Size H	Size	Order Code	Price	
300	1	1SL0283A00	10.99	
450	2	1SL0284A00	11.74	
600	3	1SL0285A00	14.80	
600	4	1SL0285A00	14.80	
750	5	1SL0286A00	17.84	
900	6	1SL0287A00	27.90	

MCB Kits

MCB Kits			Product Hierarchy 3100007	
Size HxW	Modules	Size	Order Code	Price
150 x 250	12	1	1SL0307A00	12.59
150 x 375	18	2	1SL0308A00	14.01
150 x 375	18	3	1SL0308A00	14.01
150 x 500	24	4	1SL0309A00	17.45
150 x 500	24	5	1SL0309A00	17.45
150 x 750	36	6	1SL0310A00	23.04
225 x 375	2	18	1SL0313A00	18.96
225 x 375	3	18	1SL0313A00	18.96
225 x 500	4	24	1SL0314A00	23.55
225 x 500	5	24	1SL0314A00	23.55
225 x 750	6	36	1SL0315A00	31.12

Enclosures

IP66 Gemini weather proof range



Blanking Plates

Blanking Plates		Product Hierarchy 3100007	
Size HxW	Size	Order Code	Price
150 x 250	1	1SL0324A00	10.39
150 x 375	2	1SL0325A00	11.82
150 x 375	3	1SL0325A00	11.82
150 x 500	4	1SL0326A00	13.88
150 x 500	5	1SL0327A00	15.54
150 x 750	6	1SL0327A00	15.54



Accessories

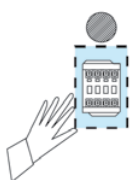

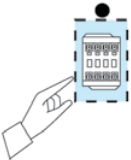

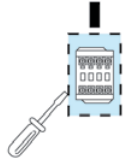

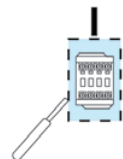




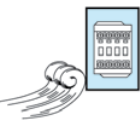
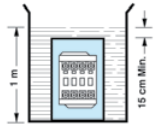
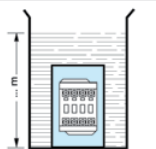
Accessories		Product Hierarchy 3100007	
Description	Size	Order Code	Price
Key lock and handle	Fits All	1SL0340A00	10.61
Square lock	Fits All	1SL0339A00	1.48
Wall mounting brackets (4off)	Fits All	1SL0342A00	6.25

5

Enclosures

IP Ratings

IP

Protection against solid objects			Protection against liquids		
0	No protection		0	No protection	
1	Protected against solid objects up to 50mm eg. accidental touch by hands		1	Protected against vertically falling drops of water eg. condensation	
2	Protected against solid objects up to 12mm eg. fingers		2	Protected against direct sprays of water up to 15° from vertical	
3	Protected against solid objects over 2.5mm (tools + wires)		3	Protected against direct sprays of water up to 60° from vertical	
4	Protected against solid objects up to 1mm (tools wires + small wires)		4	Protected against sprays of water from all directions	
5	Protected against dust (no harmful deposit)		5	Protected against low pressure jets of water from all directions	
6	Totally protected against dust		6	Protected against strong jets of water eg. for use on ship decks	
			7	Protected against the effects of immersion between 15cm and 1m.	
			8	Protected against long periods of immersion under pressure	

Enclosures

Slotted trunking



5

Size WxH	Pack Quantity	Product Hierarchy 3300001		Product Hierarchy 3300001	
		4/6mm Slots Order Code	Price	8/12mm Slots Order Code	Price
15 x 17	23	05119	1.21	05019	1.11
25 x 30	29	05133	2.87	05033	2.66
40 x 30	20	05135	3.99	05035	3.72
60 x 30	26	05137	5.41	05037	5.30
25 x 40	24	05143	3.80	05043	3.73
40 x 40	15	05145	4.62	05045	4.62
60 x 40	20	05147	5.73	05047	6.12
80 x 40	16	05149	5.73	05049	7.00
100 x 40	12	05151	8.68	05051	8.63
120 x 40	10	05153	11.71	05053	10.99
25 x 60	17	05163	3.39	05063	4.43
40 x 60	11	05165	5.49	05065	5.84
60 x 60	16	05167	7.48	05067	7.37
80 x 60	12	05169	8.29	05069	8.84
100 x 60	10	05171	10.20	05071	10.82
120 x 60	7	05173	12.59	05073	13.19
25 x 80	14	05183	5.46	05083	5.84
40 x 80	18	05185	6.95	05085	6.76
60 x 80	12	05187	9.16	05087	9.08
80 x 80	8	05189	10.86	05089	10.69
100 x 80	8	05191	12.33	05091	13.64
120 x 80	6	05193	14.24	05093	15.07
25 x 100	10	05194	7.71	05094	7.55
40 x 100	12	05195	9.76	05095	10.33
60 x 100	10	05196	11.64	05096	11.74
80 x 100	8	05197	12.22	05097	11.74
100 x 100	4	05198	14.12	05098	15.68
150 x 100	4	05199	21.72	05099	20.32

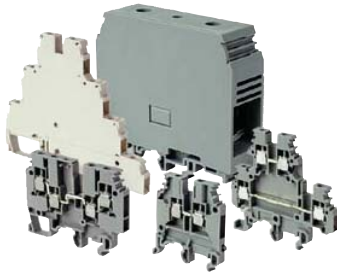
Prices are for 2 metre lengths, and sold in pack quantities

Terminals



SKN terminals

Feed through terminal blocks	6/2
Double deck terminals	6/7
Disconnect terminals	6/8
Fuse terminals	6/11
Accessories	6/13



Feed through terminals

Feed through terminal blocks	6/14
Mini feed through & fuse terminal blocks	6/23
Double deck terminals	6/25
Triple deck terminals	6/32
Disconnect terminals	6/33
Power terminals	6/37
Security terminals	6/39
Fuse terminals	6/40
Distribution blocks	6/43
General accessories	6/44



Spring clamp terminals

Spring clamp terminal blocks	6/45
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ADO terminals

ADO terminals	6/53
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5000 series



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1SNC160001C0207

SNK series



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1SNC161001C0201

Terminal blocks

SNK terminal blocks (Price per 100)

6



4.0mm² Feed Through Terminal Blocks

		Product Hierarchy 300010	
Type	Description	Order Code	Price
ZS4	4mm ² feed through terminal (Grey) [pack size = 50]	1SNK505010R0000	43.90
ZS4-BL	4mm ² feed through terminal (Blue) [pack size = 50]	1SNK505020R0000	43.90
ZS4-PE	4mm ² feed through terminal, Earth (Green / Yellow) [pack size = 20]	1SNK505150R0000	159.44
ZS4-OR	4mm ² feed through terminal (Orange) [pack size = 50]	1SNK505030R0000	48.28
ZS4-YL	4mm ² feed through terminal (Yellow) [pack size = 50]	1SNK505060R0000	48.28
ZS4-GN	4mm ² feed through terminal (Green) [pack size = 50]	1SNK505061R0000	48.28
ZS4-RD	4mm ² feed through terminal (Red) [pack size = 50]	1SNK505062R0000	48.28
ZS4-PR	4mm ² feed through terminal (Purple) [pack size = 50]	1SNK505063R0000	48.28
ZS4-BR	4mm ² feed through terminal (Brown) [pack size = 50]	1SNK505064R0000	48.28
ZS4-WH	4mm ² feed through terminal (White) [pack size = 50]	1SNK505065R0000	48.28
ZS4-BK	4mm ² feed through terminal (Black) [pack size = 50]	1SNK505066R0000	48.28

Accessories

ES4	End Section 4 - 16mm ² (dark grey) [pack size = 20]	1SNK505910R0000	19.17
CS	Circuit Separator, fits into top of terminal (dark grey) [pack size = 20]	1SNK900101R0000	28.75
CS-R1	Circuit Separator 4 - 35mm ² (dark grey) [pack size = 20]	1SNK900103R0000	28.75
TC5	Test connector (Dark Grey) [pack size = 10]	1SNK900200R0000	274.44
TC5-R1	Test Connector, end module (Dark Grey) [pack size = 10]	1SNK900201R0000	274.44
TP2	Adaptor for 2mm test plugs (Dark Grey) [pack size = 20]	1SNK900203R0000	253.33
TP4	Adaptor for 4mm test plugs (Dark Grey) [pack size = 20]	1SNK900205R0000	253.33
SHBS	Shield connector [pack size = 20]	1SNK900600R0000	39.40
PL5	Transparent cover (clear) [pack size = 10]	1SNK900618R0000	68.95
JB5-2	Jumper Bar 2 Pole, 5mm Pitch [pack size = 50]	1SNK905302R0000	38.31
JB5-3	Jumper Bar 3 Pole, 5mm Pitch [pack size = 50]	1SNK905303R0000	57.48
JB5-4	Jumper Bar 4 Pole, 5mm Pitch [pack size = 50]	1SNK905304R0000	76.63
JB5-5	Jumper Bar 5 Pole, 5mm Pitch [pack size = 50]	1SNK905305R0000	95.80
JB5-10	Jumper Bar 10 Pole, 5mm Pitch [pack size = 30]	1SNK905310R0000	191.59
JB5-50	Jumper Bar 50 Pole, 5mm Pitch [pack size = 10]	1SNK905350R0000	910.06
JB85-3	Jumper Bar 3 Pole, links 1 x 8mm pitch block with 2 x 5mm pitch blocks [pack size = 10]	1SNK900603R0000	85.50

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1SNK161001C0201

Terminal blocks

SNK terminal blocks (Price per 100)



6.0mm² Feed Through Terminal Blocks

Product Hierarchy 300010

Type	Description	Order Code	Price
ZS6	6mm ² feed through terminal (Grey) [pack size = 50]	1SNK506010R0000	56.82
ZS6-BL	6mm ² feed through terminal (Blue) [pack size = 50]	1SNK506020R0000	67.07
ZS6-PE	6mm ² feed through terminal, Ground (Green / Yellow) [pack size = 20]	1SNK506150R0000	167.10
ZS6-OR	6mm ² feed through terminal (Orange) [pack size = 50]	1SNK506030R0000	73.79
ZS6-YL	6mm ² feed through terminal (Yellow) [pack size = 50]	1SNK506060R0000	73.79
ZS6-GN	6mm ² feed through terminal (Green) [pack size = 50]	1SNK506061R0000	73.79
ZS6-RD	6mm ² feed through terminal (Red) [pack size = 50]	1SNK506062R0000	73.79
ZS6-PR	6mm ² feed through terminal (Purple) [pack size = 50]	1SNK506063R0000	73.79
ZS6-BR	6mm ² feed through terminal (Brown) [pack size = 50]	1SNK506064R0000	73.79
ZS6-WH	6mm ² feed through terminal (White) [pack size = 50]	1SNK506065R0000	73.79
ZS6-BK	6mm ² feed through terminal (Black) [pack size = 50]	1SNK506066R0000	73.79

Accessories

ES4	End Section 4 - 16mm ² (dark grey) [pack size = 20]	1SNK505910R0000	19.17
CS	Circuit Separator, fits into top of terminal (dark grey) [pack size = 20]	1SNK900101R0000	28.75
CS-R1	Circuit Separator 4 - 35mm ² (dark grey) [pack size = 20]	1SNK900103R0000	28.75
TC5	Test connector (Dark Grey) [pack size = 10]	1SNK900200R0000	274.44
TC5-R1	Test Connector, end module (Dark Grey) [pack size = 10]	1SNK900201R0000	274.44
ES-TC6	Spacer for test connector (Dark Grey) [pack size = 10]	1SNK900105R0000	21.11
TP2	Adaptor for 2mm test plugs (Dark Grey) [pack size = 20]	1SNK900203R0000	253.33
TP4	Adaptor for 4mm test plugs (Dark Grey) [pack size = 20]	1SNK900205R0000	253.33
SHBS	Shield connector [pack size = 20]	1SNK900600R0000	39.40
PL6	Transparent cover (Clear) [pack size = 10]	1SNK900619R0000	75.99
JB6-2	Jumper bar, 2 pole, 6mm pitch (Orange) [pack size = 50]	1SNK906302R0000	48.61
JB6-3	Jumper bar, 3 pole, 6mm pitch (Orange) [pack size = 50]	1SNK906303R0000	72.90
JB6-4	Jumper bar, 4 pole, 6mm pitch (Orange) [pack size = 50]	1SNK906304R0000	97.22
JB6-5	Jumper bar, 5 pole, 6mm pitch (Orange) [pack size = 50]	1SNK906305R0000	121.52
JB6-10	Jumper bar, 10 pole, 6mm pitch (Orange) [pack size = 20]	1SNK906310R0000	243.04
JB6-50	Jumper bar, 50 pole, 6mm pitch (Orange) [pack size = 10]	1SNK906350R0000	1154.47



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1SNK161001C0201

Terminal blocks

SNK terminal blocks (Price per 100)



10mm² Feed Through Terminal Blocks

		Product Hierarchy 300010	
Type	Description	Order Code	Price
ZS10	10mm² feed through terminal (Grey) [pack size = 50]	1SNK508010R0000	67.83
ZS10-BL	10mm² feed through terminal (Blue) [pack size = 50]	1SNK508020R0000	86.25
ZS10-PE	10mm² feed through terminal, Earth,(Green / Yellow) [pack size = 20]	1SNK508150R0000	181.85
ZS10-OR	10mm² feed through terminal (Orange) [pack size = 50]	1SNK508030R0000	94.85
ZS10-YL	10mm² feed through terminal (Yellow) [pack size = 50]	1SNK508060R0000	94.85
ZS10-GN	10mm² feed through terminal (Green) [pack size = 50]	1SNK508061R0000	94.85
ZS10-RD	10mm² feed through terminal (Red) [pack size = 50]	1SNK508062R0000	94.85
ZS10-PR	10mm² feed through terminal (Purple) [pack size = 50]	1SNK508063R0000	94.85
ZS10-BR	10mm² feed through terminal (Brown) [pack size = 50]	1SNK508064R0000	94.85
ZS10-WH	10mm² feed through terminal (White) [pack size = 50]	1SNK508065R0000	94.85
ZS10-BK	10mm² feed through terminal (Black) [pack size = 50]	1SNK508066R0000	94.85

Accessories

ES4	End Section 4 - 16mm² (dark grey) [pack size = 20]	1SNK505910R0000	19.17
CS	Circuit Separator, fits into top of terminal (dark grey) [pack size = 20]	1SNK900101R0000	28.75
CS-R1	Circuit Separator 4 - 35mm² (dark grey) [pack size = 20]	1SNK900103R0000	28.75
TC5	Test connector (Dark Grey) [pack size = 10]	1SNK900200R0000	274.44
TC5-R1	Test Connector, end module (Dark Grey) [pack size = 10]	1SNK900201R0000	274.44
ES-TC8	Spacer for test connector (Dark Grey) [pack size = 10]	1SNK900104R0000	21.11
TP2	Adaptor for 2mm test plugs (Dark Grey) [pack size = 20]	1SNK900203R0000	253.33
TP4	Adaptor for 4mm test plugs (Dark Grey) [pack size = 20]	1SNK900205R0000	253.33
SHBS	Shield connector [pack size = 20]	1SNK900600R0000	39.40
PL8	Transparent cover (Clear) [pack size = 10]	1SNK900620R0000	84.44
JB8-2	Jumper bar, 2 pole, 8mm pitch (Orange) [pack size = 50]	1SNK908302R0000	47.72
JB8-3	Jumper bar, 3 pole, 8mm pitch (Orange) [pack size = 50]	1SNK908303R0000	71.58
JB8-4	Jumper bar, 4 pole, 8mm pitch (Orange) [pack size = 50]	1SNK908304R0000	95.43
JB8-5	Jumper bar, 5 pole, 8mm pitch (Orange) [pack size = 40]	1SNK908305R0000	119.30
JB8-10	Jumper bar, 10 pole, 8mm pitch (Orange) [pack size = 20]	1SNK908310R0000	238.59



6



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Terminal blocks

SNK terminal blocks (Price per 100)



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1SNK161001C0201

16mm² Feed Through Terminal Blocks

		Product Hierarchy 300010	
Type	Description	Order Code	Price
ZS16	16mm² feed through terminal (Grey) [pack size = 50]	1SNK510010R0000	98.10
ZS16-BL	16mm² feed through terminal (Blue) [pack size = 50]	1SNK510020R0000	114.98
ZS16-PE	16mm² feed through terminal, Earth, (Green / Yellow) [pack size = 20]	1SNK510150R0000	249.03
ZS16-OR	16mm² feed through terminal (Orange) [pack size = 50]	1SNK510030R0000	114.98
Accessories			
ES4	End Section 4 - 16mm² (dark grey) [pack size = 20]	1SNK505910R0000	19.17
CS	Circuit Separator, fits into top of terminal (dark grey) [pack size = 20]	1SNK900101R0000	28.75
CS-R1	Circuit Separator 4 - 35mm² (dark grey) [pack size = 20]	1SNK900103R0000	28.75
TP2	Adaptor for 2mm test plugs (Dark Grey) [pack size = 20]	1SNK900203R0000	253.33
TP4	Adaptor for 4mm test plugs (Dark Grey) [pack size = 20]	1SNK900205R0000	253.33
PL10	Transparent cover (Clear) [pack size = 10]	1SNK900621R0000	89.36
JB10-2	Jumper bar, 2 pole, 10mm pitch (Orange) [pack size = 50]	1SNK910302R0000	75.39
JB10-3	Jumper bar, 3 pole, 10mm pitch (Orange) [pack size = 50]	1SNK910303R0000	113.09
JB10-4	Jumper bar, 4 pole, 10mm pitch (Orange) [pack size = 40]	1SNK910304R0000	150.78
JB10-5	Jumper bar, 5 pole, 10mm pitch (Orange) [pack size = 30]	1SNK910305R0000	188.48
JB10-10	Jumper bar, 10 pole, 10mm pitch (Orange) [pack size = 20]	1SNK910310R0000	376.96

6

35mm² Feed Through Terminal Blocks

		Product Hierarchy 300010	
Type	Description	Order Code	Price
ZS35	35mm² feed through terminal (Grey) [pack size = 20]	1SNK516010R0000	232.82
ZS35-BL	35mm² feed through terminal (Blue) [pack size = 20]	1SNK516020R0000	258.79
ZS35-PE	35mm² feed through terminal, Ground (Green / Yellow) [pack size = 20]	1SNK516150R0000	306.77
ZS35-OR	35mm² feed through terminal (Orange) [pack size = 20]	1SNK516030R0000	258.79
Accessories			
PL16	Transparent cover (Clear) [pack size = 10]	1SNK900622R0000	94.99
JB16-2	Jumper bar, 2 pole, 16mm pitch [pack size = 10]	1SNK916302R0000	129.48
JB16-3	Jumper bar, 3 pole, 16mm pitch [pack size = 10]	1SNK916303R0000	194.21
JB16-4	Jumper bar, 4 pole, 16mm pitch [pack size = 10]	1SNK916304R0000	258.95
JB16-5	Jumper bar, 5 pole, 16mm pitch [pack size = 10]	1SNK916305R0000	323.69
JB16-10	Jumper bar, 10 pole, 16mm pitch [pack size = 10]	1SNK916310R0000	647.39

Terminal blocks

SNK terminal blocks (Price per 100)



70mm² Feed Through Terminal Blocks

		Product Hierarchy 300010	
Type	Description	Order Code	Price
ZS70	70mm² feed through terminal block (Grey) [pack size = 10]	1SNK522010R0000	631.10
ZS70-BL	70mm² feed through terminal block (Blue) [pack size = 10]	1SNK522020R0000	958.07
ZS70-PE	70mm² feed through terminal block, Ground (Green / Yellow) [pack size = 10]	1SNK522150R0000	1240.13

Accessories

JB22-2	Jumper bar, 2 pole, 22mm pitch [pack size = 5]	1SNK922302R0000	308.02
JB22-3	Jumper bar, 3 pole, 22mm pitch [pack size = 5]	1SNK922303R0000	462.02
JB22-5	Jumper bar, 5 pole, 22mm pitch [pack size = 5]	1SNK922305R0000	770.03
JB22-10	Jumper bar, 10 pole, 22mm pitch [pack size = 5]	1SNK922310R0000	1540.06



95mm² Feed Through Terminal Blocks

		Product Hierarchy 300010	
Type	Description	Order Code	Price
ZS95	95mm² feed through terminal (Grey) [pack size = 10]	1SNK526010R0000	1223.79
ZS95-BL	95mm² feed through terminal (Blue) [pack size = 10]	1SNK526020R0000	1223.79
ZS95-PE	95mm² feed through terminal, Ground (Green / Yellow) [pack size = 10]	1SNK526150R0000	1514.43

Accessories

JB26-2	Jumper bar, 2 pole, 26mm pitch [pack size = 5]	1SNK926302R0000	517.19
JB26-3	Jumper bar, 3 pole, 26mm pitch [pack size = 5]	1SNK926303R0000	775.80
JB26-5	Jumper bar, 5 pole, 26mm pitch [pack size = 5]	1SNK926305R0000	1292.99
JB26-10	Jumper bar, 10 pole, 26mm pitch [pack size = 5]	1SNK926310R0000	2585.97



6



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Terminal blocks

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4.0mm² Double Deck Terminal Blocks

		Product Hierarchy 300010	
Type	Description	Order Code	Price
ZS4-D2	4mm ² double deck terminal, 2 circuits (Grey) [pack size = 50]	1SNK505210R0000	114.18
ZS4-D1	4mm ² double deck terminal, 1 circuit (Grey) [pack size = 50]	1SNK505211R0000	280.26
ZS4-D2-BL	4mm ² double deck terminal, 2 circuits (Blue) [pack size = 50]	1SNK505220R0000	114.18
ZS4-D2-OR	4mm ² double deck terminal, 2 circuits (Orange) [pack size = 50]	1SNK505230R0000	119.89

Accessories

ES4-D2	End Section for double deck terminals [pack size = 20]	1SNK505960R0000	38.31
TC5	Test connector (Dark Grey) [pack size = 10]	1SNK900200R0000	274.44
TC5-R1	Test Connector, end module (Dark Grey) [pack size = 10]	1SNK900201R0000	274.44
TP2	Adaptor for 2mm test plugs (Dark Grey) [pack size = 20]	1SNK900203R0000	253.33
TP4	Adaptor for 4mm test plugs (Dark Grey) [pack size = 20]	1SNK900205R0000	253.33
SHB	Shield connector [pack size = 20]	1SNK900602R0000	100.62
JB5-2	Jumper Bar 2 Pole, 5mm Pitch [pack size = 50]	1SNK905302R0000	38.31
JB5-3	Jumper Bar 3 Pole, 5mm Pitch [pack size = 50]	1SNK905303R0000	57.48
JB5-4	Jumper Bar 4 Pole, 5mm Pitch [pack size = 50]	1SNK905304R0000	76.63
JB5-5	Jumper Bar 5 Pole, 5mm Pitch [pack size = 50]	1SNK905305R0000	95.80
JB5-10	Jumper Bar 10 Pole, 5mm Pitch [pack size = 30]	1SNK905310R0000	191.59



6.0mm² Double Deck Terminal Blocks

		Product Hierarchy 300010	
Type	Description	Order Code	Price
ZS6-D2	6mm ² double deck terminal, 2 circuits (Grey) [pack size = 50]	1SNK506210R0000	149.49
ZS6-D1	6mm ² double deck terminal, 1 circuit (Grey) [pack size = 50]	1SNK506211R0000	255.82
ZS6-D2-BL	6mm ² double deck terminal, 2 circuits (Blue) [pack size = 50]	1SNK506220R0000	149.49
ZS6-D2-OR	6mm ² double deck terminal, 2 circuits (Orange) [pack size = 50]	1SNK506230R0000	155.47

Accessories

ES4-D2	End Section for double deck terminals [pack size = 20]	1SNK505960R0000	38.31
TC5	Test connector (Dark Grey) [pack size = 10]	1SNK900200R0000	274.44
TC5-R1	Test Connector, end module (Dark Grey) [pack size = 10]	1SNK900201R0000	274.44
ES-TC6	Spacer for test connector (Dark Grey) [pack size = 10]	1SNK900105R0000	21.11
TP2	Adaptor for 2mm test plugs (Dark Grey) [pack size = 20]	1SNK900203R0000	253.33
TP4	Adaptor for 4mm test plugs (Dark Grey) [pack size = 20]	1SNK900205R0000	253.33
SHB	Shield connector [pack size = 20]	1SNK900602R0000	100.62
JB6-2	Jumper bar, 2 pole, 6mm pitch (Orange) [pack size = 50]	1SNK906302R0000	48.61
JB6-3	Jumper bar, 3 pole, 6mm pitch (Orange) [pack size = 50]	1SNK906303R0000	72.90
JB6-4	Jumper bar, 4 pole, 6mm pitch (Orange) [pack size = 50]	1SNK906304R0000	97.22
JB6-5	Jumper bar, 5 pole, 6mm pitch (Orange) [pack size = 50]	1SNK906305R0000	121.52
JB6-10	Jumper bar, 10 pole, 6mm pitch (Orange) [pack size = 20]	1SNK906310R0000	243.04



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Terminal blocks

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4.0mm² Disconnect (Blade) Terminal Block (Same profile as ZS4)

		Product Hierarchy 300010	
Type	Description	Order Code	Price
ZS4-S	4mm ² disconnect terminal (Grey) [pack size = 50]	1SNK505310R0000	149.49
ZS4-S-BL	4mm ² disconnect terminal (Blue) [pack size = 50]	1SNK505320R0000	149.49
ZS4-S-OR	4mm ² disconnect terminal (Orange) [pack size = 50]	1SNK505330R0000	155.47
ZS4-S-T2	4mm ² disconnect terminal with 2mm test sockets (Grey) [pack size = 50]	1SNK505311R0000	187.03
ZS4-S-T2-BL	4mm ² disconnect terminal with 2mm test sockets (Blue) [pack size = 50]	1SNK505321R0000	187.03
ZS4-S-T2-OR	4mm ² disconnect terminal with 2mm test sockets (Orange) [pack size = 50]	1SNK505331R0000	194.50
ZS4-S-T2.3	4mm ² disconnect terminal with 2.3mm test sockets (Grey) [pack size = 50]	1SNK505312R0000	187.03

Accessories

ES4	End Section 4 - 16mm ² (dark grey) [pack size = 20]	1SNK505910R0000	19.17
CS-R1	Circuit Separator 4 - 35mm ² (dark grey) [pack size = 20]	1SNK900103R0000	28.75
SHBS	Shield connector [pack size = 20]	1SNK900600R0000	39.40
PL5	Transparent cover (clear) [pack size = 10]	1SNK900618R0000	68.95

6



4.0mm² Disconnect (Blade) Terminal Block

		Product Hierarchy 300010	
Type	Description	Order Code	Price
ZS4-S-R1	4mm ² disconnect terminal (Grey) [pack size = 50]	1SNK506310R0000	224.24
ZS4-S-R1-BL	4mm ² disconnect terminal (Blue) [pack size = 50]	1SNK506320R0000	224.24
ZS4-S-R1-OR	4mm ² disconnect terminal (Orange) [pack size = 50]	1SNK506330R0000	233.21

Accessories

TC5	Test connector (Dark Grey) [pack size = 10]	1SNK900200R0000	274.44
TC5-R1	Test Connector, end module (Dark Grey) [pack size = 10]	1SNK900201R0000	274.44
ES-TC6	Spacer for test connector (Dark Grey) [pack size = 10]	1SNK900105R0000	21.11
TP2	Adaptor for 2mm test plugs (Dark Grey) [pack size = 20]	1SNK900203R0000	253.33
TP4	Adaptor for 4mm test plugs (Dark Grey) [pack size = 20]	1SNK900205R0000	253.33
JB6-2	Jumper bar, 2 pole, 6mm pitch (Orange) [pack size = 50]	1SNK906302R0000	48.61
JB6-3	Jumper bar, 3 pole, 6mm pitch (Orange) [pack size = 50]	1SNK906303R0000	72.90
JB6-4	Jumper bar, 4 pole, 6mm pitch (Orange) [pack size = 50]	1SNK906304R0000	97.22
JB6-5	Jumper bar, 5 pole, 6mm pitch (Orange) [pack size = 50]	1SNK906305R0000	121.52
JB6-10	Jumper bar, 10 pole, 6mm pitch (Orange) [pack size = 50]	1SNK906310R0000	243.04



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Terminal blocks

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4.0mm² Disconnect (Blade) Terminal Block

Product Hierarchy 300010

Type	Description	Order Code	Price
ZS4-S-T2-R1	4mm ² disconnect terminal with 2mm test sockets (Grey) [pack size = 50]	1SNK506311R0000	261.77
ZS4-S-T2-R1-BL	4mm ² disconnect terminal with 2mm test sockets (Blue) [pack size = 50]	1SNK506321R0000	261.77
ZS4-S-T2-R1-OR	4mm ² disconnect terminal with 2mm test sockets (Orange) [pack size = 50]	1SNK506331R0000	272.23
ZS4-S-T2.3-R1	4mm ² disconnect terminal with 2.3mm test sockets (Grey) [pack size = 50]	1SNK506312R0000	261.77
Accessories			
TC5	Test connector (Dark Grey) [pack size = 10]	1SNK900200R0000	274.44
TC5-R1	Test Connector, end module (Dark Grey) [pack size = 10]	1SNK900201R0000	274.44
ES-TC6	Spacer for test connector (Dark Grey) [pack size = 10]	1SNK900105R0000	21.11
Accessories			
JB6-2	Jumper bar, 2 pole, 6mm pitch (Orange) [pack size = 50]	1SNK906302R0000	48.61
JB6-3	Jumper bar, 3 pole, 6mm pitch (Orange) [pack size = 50]	1SNK906303R0000	72.90
JB6-4	Jumper bar, 4 pole, 6mm pitch (Orange) [pack size = 50]	1SNK906304R0000	97.22
JB6-5	Jumper bar, 5 pole, 6mm pitch (Orange) [pack size = 50]	1SNK906305R0000	121.52
JB6-10	Jumper bar, 10 pole, 6mm pitch (Orange) [pack size = 20]	1SNK906310R0000	243.04

4.0mm² Disconnect (Blade) Terminal Block

Product Hierarchy 300010

Type	Description	Order Code	Price
ZS4-SP	4mm ² disconnect terminal (plug sold separately) (Grey) [pack size = 50]	1SNK505313R0000	140.11
ZS4-SP-T2	4mm ² disconnect terminal with 2mm test sockets (plug sold separately) (Grey) [pack size = 50]	1SNK505314R0000	177.64
Accessories			
ES4	End Section 4 - 16mm ² (dark grey) [pack size = 20]	1SNK505910R0000	19.17
Accessories			
PG5	Component plug (Grey) [pack size = 20]	1SNK900401R0000	116.11
PG5-R1	Plug with integral linking bar (Orange) [pack size = 25]	1SNK900402R0000	94.99
Accessories			
SHBS	Shield connector [pack size = 20]	1SNK900600R0000	39.40

Terminal blocks

SNK terminal blocks (Price per 100)



4.0mm² Disconnect (Pluggable) Terminal Block (Same profile as ZS4)

Product Hierarchy 300010

Type	Description	Order Code	Price
ZS4-SP-R1	4mm ² disconnect terminal (plug sold separately) (Grey) [pack size = 50]	1SNK506313R0000	214.85
ZS4-SPT2-R1	4mm ² disconnect terminal with 2mm test sockets (plug sold separately) (Grey) [pack size = 50]	1SNK506314R0000	252.39

Accessories

PG5	Component plug (Grey) [pack size = 20]	1SNK900401R0000	116.11
PG5-R1	Plug with integral linking bar (Orange) [pack size = 25]	1SNK900402R0000	94.99
TC5	Test connector (Dark Grey) [pack size = 10]	1SNK900200R0000	274.44
TC5-R1	Test Connector, end module (Dark Grey) [pack size = 10]	1SNK900201R0000	274.44
ES-TC6	Spacer for test connector (Dark Grey) [pack size = 10]	1SNK900105R0000	21.11
JB6-2	Jumper bar, 2 pole, 6mm pitch (Orange) [pack size = 50]	1SNK906302R0000	48.61
JB6-3	Jumper bar, 3 pole, 6mm pitch (Orange) [pack size = 50]	1SNK906303R0000	72.90
JB6-4	Jumper bar, 4 pole, 6mm pitch (Orange) [pack size = 50]	1SNK906304R0000	97.22
JB6-5	Jumper bar, 5 pole, 6mm pitch (Orange) [pack size = 50]	1SNK906305R0000	121.52
JB6-10	Jumper bar, 10 pole, 6mm pitch (Orange) [pack size = 20]	1SNK906310R0000	243.04

6



4.0mm² Disconnect (Pluggable) Terminal Block (Same profile as ZS4)

Product Hierarchy 300010

Type	Description	Order Code	Price
ZS4-S-R2	4mm ² disconnect terminal (Grey / Orange) [pack size = 50]	1SNK506414R0000	273.83

Accessories

TC5	Test connector (Dark Grey) [pack size = 10]	1SNK900200R0000	274.44
TC5-R1	Test Connector, end module (Dark Grey) [pack size = 10]	1SNK900201R0000	274.44
ES-TC6	Spacer for test connector (Dark Grey) [pack size = 10]	1SNK900105R0000	21.11
TP2	Adaptor for 2mm test plugs (Dark Grey) [pack size = 20]	1SNK900203R0000	253.33
TP4	Adaptor for 4mm test plugs (Dark Grey) [pack size = 20]	1SNK900205R0000	253.33
JB6-2	Jumper bar, 2 pole, 6mm pitch (Orange) [pack size = 50]	1SNK906302R0000	48.61
JB6-3	Jumper bar, 3 pole, 6mm pitch (Orange) [pack size = 50]	1SNK906303R0000	72.90
JB6-4	Jumper bar, 4 pole, 6mm pitch (Orange) [pack size = 50]	1SNK906304R0000	97.22
JB6-5	Jumper bar, 5 pole, 6mm pitch (Orange) [pack size = 50]	1SNK906305R0000	121.52
JB6-10	Jumper bar, 10 pole, 6mm pitch (Orange) [pack size = 20]	1SNK906310R0000	243.04



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Terminal blocks

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4.0mm² Disconnect (Lever) Terminal Block (Same profile as ZS4-SF1)

Product Hierarchy 300010

Type	Description	Order Code	Price
ZS4-S-R3	4mm ² disconnect terminal with integral linking bar (Grey / Orange) [pack size = 50]	1SNK508416R0000	199.52

Accessories

ES4-SF	End Section (Dark Grey) [pack size = 20]	1SNK508960R0000	21.11
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4.0mm² 5x20mm Fuse Terminal

Product Hierarchy 300010

Type	Description	Order Code	Price
ZS4-SF	4mm ² 5x20mm Fuse Terminal (Grey / Dark Grey) [pack size = 50]	1SNK506410R0000	200.34
ZS4-SF-R1	4mm ² 5x20mm Fuse Terminal with 24-60V LED blown fuse indicator (Grey / Dark Grey) [pack size = 50]	1SNK506412R0000	605.47
ZS4-SF-R3	4mm ² 5x20mm Fuse Terminal with 115-250V LED blown fuse indicator (Grey / Dark Grey) [pack size = 50]	1SNK506415R0000	605.47

Accessories

TC5	Test connector (Dark Grey) [pack size = 10]	1SNK900200R0000	274.44
TC5-R1	Test Connector, end module (Dark Grey) [pack size = 10]	1SNK900201R0000	274.44
ES-TC6	Spacer for test connector (Dark Grey) [pack size = 10]	1SNK900105R0000	21.11
TP2	Adaptor for 2mm test plugs (Dark Grey) [pack size = 20]	1SNK900203R0000	253.33
TP4	Adaptor for 4mm test plugs (Dark Grey) [pack size = 20]	1SNK900205R0000	253.33



JB6-2	Jumper bar, 2 pole, 6mm pitch (Orange) [pack size = 50]	1SNK906302R0000	48.61
JB6-3	Jumper bar, 3 pole, 6mm pitch (Orange) [pack size = 50]	1SNK906303R0000	72.90
JB6-4	Jumper bar, 4 pole, 6mm pitch (Orange) [pack size = 50]	1SNK906304R0000	97.22
JB6-5	Jumper bar, 5 pole, 6mm pitch (Orange) [pack size = 50]	1SNK906305R0000	121.52
JB6-10	Jumper bar, 10 pole, 6mm pitch (Orange) [pack size = 20]	1SNK906310R0000	243.04

6



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Terminal blocks

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4.0mm² 5x20mm Fuse Terminal

		Product Hierarchy 300010	
Type	Description	Order Code	Price
ZS4-SF-T2	4mm ² 5x20mm Fuse Terminal with 2mm test sockets (Grey / Dark Grey) [pack size = 50]	1SNK506411R0000	286.48
ZS4-SF-R2	4mm ² 5x20mm Fuse Terminal with 2mm test sockets, 24-60V LED blown fuse indicator (Grey / Dark Grey) [pack size = 50]	1SNK506413R0000	394.06
ZS4-SF-R4	4mm ² 5x20mm Fuse Terminal with 2mm test sockets, 115-250V LED blown fuse indicator (Grey / Dark Grey) [pack size = 50]	1SNK506416R0000	642.99

Accessories

TC5	Test connector (Dark Grey) [pack size = 10]	1SNK900200R0000	274.44
TC5-R1	Test connector, end module (Dark Grey) [pack size = 10]	1SNK900201R0000	274.44
ES-TC6	Spacer for test connector (Dark Grey) [pack size = 10]	1SNK900105R0000	21.11
JB6-2	Jumper bar, 2 pole, 6mm pitch (Orange) [pack size = 50]	1SNK906302R0000	48.61
JB6-3	Jumper bar, 3 pole, 6mm pitch (Orange) [pack size = 50]	1SNK906303R0000	72.90
JB6-4	Jumper bar, 4 pole, 6mm pitch (Orange) [pack size = 50]	1SNK906304R0000	97.22
JB6-5	Jumper bar, 5 pole, 6mm pitch (Orange) [pack size = 50]	1SNK906305R0000	121.52
JB6-10	Jumper bar, 10 pole, 6mm pitch (Orange) [pack size = 20]	1SNK906310R0000	243.04

6



4.0mm² 5x20mm Fuse Terminal

		Product Hierarchy 300010	
Type	Description	Order Code	Price
ZS4-SF1	4mm ² 5x20mm / 5x25mm Fuse Terminal (Grey / Dark Grey) [pack size = 50]	1SNK508410R0000	201.04
ZS4-SF1-R1	4mm ² 5x20mm / 5x25mm Fuse Terminal, 24-60V blown fuse indicator (Grey / Dark Grey) [pack size = 50]	1SNK508412R0000	537.92
ZS4-SF1-R3	4mm ² 5x20mm / 5x25mm Fuse Terminal, 115-250V blown fuse indicator (Grey / Dark Grey) [pack size = 50]	1SNK508414R0000	537.92
ZS4-SF1-T2	4mm ² 5x20mm / 5x25mm Fuse Terminal with 2mm test sockets (Grey / Dark Grey) [pack size = 50]	1SNK508411R0000	218.92
ZS4-SF1-R2	4mm ² 5x20mm / 5x25mm Fuse Terminal with 2mm test sockets, 24-60V blown fuse indicator (Grey / Dark Grey) [pack size = 50]	1SNK508413R0000	575.44
ZS4-SF1-R4	4mm ² 5x20mm / 5x25mm Fuse Terminal with 2mm test sockets, 115-250V blown fuse indicator (Grey / Dark Grey) [pack size = 50]	1SNK508415R0000	575.44
ZS4-R1	4mm ² feed through terminal, (same profile as ZS4-SF1) (Grey) [pack size = 50]	1SNK508013R0000	119.72

Accessories

ES4-SF	End Section (Dark Grey) [pack size = 20]	1SNK508960R0000	21.11
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Terminal blocks

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General Accessories (End Stops and Protective Covers)

		Product Hierarchy 300010	
Type	Description	Order Code	Price
BAM3	TS35 rail screw down end stop (Dark Grey) [pack size = 50]	1SNK900001R0000	39.30
BAZH1	TS35 rail screw down tall end stop (Dark Grey) [pack size = 20]	1SNK900102R0000	116.11
KCO	Protective cover mounting kit (2 x BAZH1 + seals) (Dark Grey) [pack size = 1]	1SNK900624R0000	267.03
CO	77mm x 30mm x 1m protective cover	1SNK900604R0000	879.58

General Accessories (End Stops and Protective Covers)

LH	10mm label holder (fits into end stops) (Dark Grey) [pack size = 50]	1SNK900605R0000	14.78
MCLH	Card of 36 labels 30x8.8mm for LH label holder (White) [pack size = 25]	1SNK900630R0000	527.75
MCLH-YL	Card of 36 labels 30x8.8mm for LH label holder (Yellow) [pack size = 25]	1SNK900633R0000	516.03
LH-R1	10mm label holder (fits into end stops) (Dark Grey) [pack size = 50]	1SNK900607R0000	23.93
MCLH-R1	Card of 15 labels 35.35x17.65mm for LH-R1 label holder (White) [pack size = 25]	1SNK900631R0000	788.11
MCLH-R1-YL	Card of 15 labels 35.35x17.65mm for LH-R1 label holder (Yellow) [pack size = 25]	1SNK900634R0000	770.60
SAT	210 x 148mm self adhesive label sheet (white) [pack size = 5]	1SNK900623R0000	149.07
SAT5	Sheet of 240 9 x 5.2mm self adhesive markers (White) [pack size = 5]	1SNK900614R0000	177.74
SAT6	Sheet of 240 9 x 5.8mm self adhesive markers (White) [pack size = 5]	1SNK900615R0000	177.74
SAT8	Sheet of 160 9 x 7.8mm self adhesive markers (White) [pack size = 5]	1SNK900616R0000	177.74

MC512	MC512 marker card - contains 45 blank 5mm x 12mm tags (white) [pack size = 22]	1SNK140000R0000	94.60
MC512PA	MC512PA marker card - contains 100 blank 5 x 12mm tags (white) [pack size = 20]	1SNK149999R0000	108.93
MC512PA	MC512PA marker card - horizontal 10 x [0->9]	1SNK140091R0000	172.63
MC512PA	MC512PA marker card - horizontal 10 x [1->10]	1SNK140011R0000	172.63
MC512PA	MC512PA marker card - horizontal 10 x [11->20]	1SNK140021R0000	172.63
MC512PA	MC512PA marker card - horizontal 10 x [21->30]	1SNK140031R0000	172.63
MC512PA	MC512PA marker card - horizontal 10 x [31->40]	1SNK140041R0000	172.63
MC512PA	MC512PA marker card - horizontal 10 x [41->50]	1SNK140051R0000	172.63
MC512PA	MC512PA marker card - horizontal 10 x [51->60]	1SNK140061R0000	172.63
MC512PA	MC512PA marker card - horizontal 10 x [61->70]	1SNK140071R0000	172.63
MC512PA	MC512PA marker card - horizontal 10 x [71->80]	1SNK140081R0000	172.63
MC512PA	MC512PA marker card - horizontal 10 x [81->90]	1SNK140083R0000	172.63
MC512PA	MC512PA marker card - horizontal 10 x [91->100]	1SNK140101R0000	172.63
MC512PA	MC512PA marker card - horizontal [1->100]	1SNK145011R0000	172.63
MC512PA	MC512PA marker card - horizontal 100 x	1SNK148041R0000	172.63
MC512PA	MC512PA marker card - horizontal 20 x [L1 L2 L3 N PE]	1SNK149001R0000	172.63




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1SNK161001C0201

Terminal blocks

SNK terminal blocks (Price per 100)



General Accessories (Markers)		Product Hierarchy 300010	
Type	Description	Order Code	Price
MC612	MC612 marker card - contains 39 blank 6mm x 12mm tags (white) [pack size = 22]	1SNK150000R0000	103.58
MC612PA	MC612PA marker card - contains 100 blank 6 x 12mm tags (white) [pack size = 20]	1SNK159999R0000	125.28
MC612PA	MC612PA marker card - horizontal 10 x [1->10]	1SNK150011R0000	189.02
MC612PA	MC612PA marker card - horizontal 10 x [11->20]	1SNK150021R0000	189.02
MC612PA	MC612PA marker card - horizontal 10 x [21->30]	1SNK150031R0000	189.02
MC612PA	MC612PA marker card - horizontal 10 x [31->40]	1SNK150041R0000	189.02
MC612PA	MC612PA marker card - horizontal 10 x [41->50]	1SNK150051R0000	189.02
MC612PA	MC612PA marker card - horizontal 10 x [51->60]	1SNK150061R0000	189.02
MC612PA	MC612PA marker card - horizontal 10 x [61->70]	1SNK150071R0000	189.02
MC612PA	MC612PA marker card - horizontal 10 x [71->80]	1SNK150081R0000	189.02
MC612PA	MC612PA marker card - horizontal 10 x [91->100]	1SNK150101R0000	189.02
MC612PA	MC612PA marker card - horizontal [1->100]	1SNK155011R0000	189.02
MC612PA	MC612PA marker card - horizontal 100 x	1SNK158041R0000	189.02
MC612PA	MC612PA marker card - horizontal 20 x [L1 L2 L3 N PE] 	1SNK159001R0000	189.02
MC812	MC812 marker card - contains 30 blank 8mm x 12mm tags (white) [pack size = 22]	1SNK160000R0000	125.00
MC812PA	MC812PA marker card - contains 100 blank 6 x 12mm tags (white) [pack size = 20]	1SNK169999R0000	163.42
MC812PA	MC812PA marker card - horizontal 10 x [1->10]	1SNK160011R0000	227.26
MC812PA	MC812PA marker card - horizontal 10 x [11->20]	1SNK160021R0000	227.26
MC812PA	MC812PA marker card - horizontal 10 x [21->30]	1SNK160031R0000	227.26
MC812PA	MC812PA marker card - horizontal 10 x [31->40]	1SNK160041R0000	227.26
MC812PA	MC812PA marker card - horizontal 10 x [41->50]	1SNK160051R0000	227.26
MC812PA	MC812PA marker card - horizontal 10 x [51->60]	1SNK160061R0000	227.26
MC812PA	MC812PA marker card - horizontal 10 x [61->70]	1SNK160071R0000	227.26
MC812PA	MC812PA marker card - horizontal 10 x [71->80]	1SNK160081R0000	227.26
MC812PA	MC812PA marker card - horizontal 10 x [91->100]	1SNK160101R0000	227.26

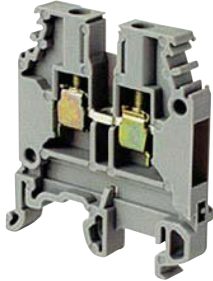
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Terminals & connectors

Feed through terminal blocks



Feed Through Terminal Blocks 2.5mm²

Product Hierarchy 300002

Type	Description	Order Code	Price
MA2,5/5	2.5mm ² feed through terminal (Grey)	1SNA115486R0300	0.53
MA2,5/5.N	2.5mm ² feed through terminal (Blue)	1SNA125486R0500	0.69
MA2,5/5.P	2.5mm ² feed through terminal, Ground (Green/Yellow)	1SNA165488R2700	2.32
MA2,5/5.V0	2.5mm ² feed through terminal (Beige) V0	1SNA195486R0400	0.72
MA2,5/5	2.5mm ² feed through terminal (White)	1SNA105052R2100	0.69
MA2,5/5	2.5mm ² feed through terminal (Yellow)	1SNA105486R1200	0.53
MA2,5/5.1	2.5mm ² feed through terminal with partition (Grey)	1SNA115485R0200	0.58

Accessories

Product Hierarchy 300008

Type	Description	Order Code	Price
FEM6	End section 2.5mm ² - 10mm ² (Grey)	1SNA118368R1600	0.25
FEM6	End section 2.5mm ² - 10mm ² (Blue)	1SNA128368R1000	0.32
FEM6	End section 2.5mm ² - 10mm ² (Yellow)	1SNA103062R2100	0.25
FEM6	End section 2.5mm ² - 10mm ² (Green)	1SNA103125R1500	0.32
FEM6	End section 2.5mm ² - 10mm ² (Orange)	1SNA103126R1600	0.32
FEM6	End section 2.5mm ² - 10mm ² (White)	1SNA103312R2000	0.20
FEM6 V0	End section 2.5mm ² - 10mm ² (Beige) V0	1SNA198368R1700	0.40
FEM61	End section 2.5mm ² - 10mm ² (Grey) snaps onto dinrail	1SNA114776R2300	0.47
FEM6C	Circuit separator 2.5mm ² - 10mm ² (Grey) snaps onto dinrail, for CPM cover	1SNA114777R2400	0.48
SCMA5	Circuit separator 2.5mm ² - 10mm ² (Grey) fits into top of terminal	1SNA116728R2500	0.25
SCF6	Separator end section 2.5mm ² - 10mm ² (Grey) for CPM cover	1SNA118707R0300	0.37
SCF61	Separator end section 2.5mm ² - 10mm ² (Grey)	1SNA114202R2500	0.63
SCFM6	Separator end section 2.5mm ² - 10mm ² (Grey) snaps onto dinrail, for CPM cover	1SNA114825R0500	0.52
SCFCV1-2	Separator end section (Grey) for CPV cover	1SNA116795R1100	1.52
BJMI5	Jumper bar - 2 pole (IP20)	1SNA176278R1600	1.13
BJMI5	Jumper bar - 3 pole (IP20)	1SNA176279R1700	1.25
BJMI5	Jumper bar - 4 pole (IP20)	1SNA176280R0500	1.47
BJMI5	Jumper bar - 5 pole (IP20)	1SNA176281R2200	1.87
BJMI5	Jumper bar - 10 pole (IP20)	1SNA176282R2300	3.13
EL6	Connector plate for linking two jumper bars together	1SNA173627R2100	0.24
PC5	Comb jumper bar - 10 poles	1SNA113544R1200	1.48
EIP	Insulating tip for comb jumper bar	1SNA113550R2400	0.21
CPM	Protective cover (Clear) 0.5 metres	1SNA187312R1400	2.32
CPV1-2	Protective cover (Clear) 1 metre	1SNA176816R1200	9.82
AL2	Test socket 2mm dia.	1SNA163043R2100	0.23



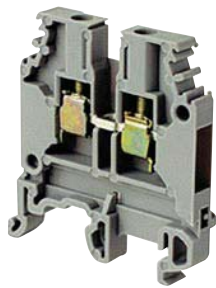
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Terminals & connectors

Feed through terminal blocks

Accessories

		Product Hierarchy 300008	
Type	Description	Order Code	Price
CBM5	Screen bar 0.5mm thickness	1SNA178745R1400	0.37
CBM8	Screen bar 0.8mm thickness	1SNA178746R1500	0.47
EPU5	Yellow protection label (strip of 12 labels)	1SNA107033R1000	3.06



Feed Through Terminal Blocks 4.0mm²

		Product Hierarchy 300002	
Type	Description	Order Code	Price
M4/6	4.0mm² feed through terminal (Grey)	1SNA115116R0700	0.53
M4/6	4.0mm² feed through terminal (Blue)	1SNA125116R0100	0.69
M4/6.P	4.0mm² feed through terminal, Ground screws onto dinrail (Green/Yellow)	1SNA165113R1600	2.27
D4/6.P	4.0mm² feed through terminal, Ground snaps onto dinrail (Green/Yellow)	1SNA165809R0100	2.05
M4/6	4.0mm² feed through terminal (Green)	1SNA105001R2700	0.69
M4/6	4.0mm² feed through terminal (Orange)	1SNA105002R2000	0.53
M4/6	4.0mm² feed through terminal (Black)	1SNA105031R1400	0.53
M4/6	4.0mm² feed through terminal (Red)	1SNA105032R1500	0.53
M4/6	4.0mm² feed through terminal (White)	1SNA105051R2000	0.69
M4/6	4.0mm² feed through terminal (Yellow)	1SNA105116R1600	0.53
M4/6	4.0mm² feed through terminal (Brown)	1SNA105209R1400	0.53
M4/6 V0	4.0mm² feed through terminal (Beige) V0	1SNA195116R0000	0.72
M4/6.1	4.0mm² feed through terminal with partition (Grey)	1SNA115259R0600	0.75
M4/6.C	4.0mm² feed through terminal with partition and 2.5mm dia. test socket (Grey)	1SNA115208R0400	1.36
M4/6.3A	4.0mm² feed through terminal (3 screw clamps) (Grey)	1SNA115468R2000	1.09
M4/6.3A	4.0mm² feed through terminal (3 screw clamps) (Blue)	1SNA125468R2200	1.57
M4/6.3A.P	4.0mm² feed through terminal, (3 screw clamps) Ground (Green/Yellow)	1SNA195637R1200	3.04
M4/6.3A.1	4.0mm² feed through terminal with partition (3 screw clamps) (Grey)	1SNA115483R0000	1.55
M4/6.4A	4.0mm² feed through terminal (4 screw clamps) (Grey)	1SNA115479R2300	1.28
M4/6.4A	4.0mm² feed through terminal (4 screw clamps) (Blue)	1SNA125479R2500	1.86
M4/6.4A.P	4.0mm² feed through terminal, (4 screw clamps) Ground (Green/Yellow)	1SNA195638R2300	3.43
MS4/6	4.0mm² compact feed through terminal (Grey)	1SNA115265R2400	0.57

Accessories

FEM6	End section 2.5mm² - 10mm² (Grey)	1SNA118368R1600	0.25
FEM6	End section 2.5mm² - 10mm² (Blue)	1SNA128368R1000	0.32
FEM6	End section 2.5mm² - 10mm² (Yellow)	1SNA103062R2100	0.25
FEM6	End section 2.5mm² - 10mm² (Green)	1SNA103125R1500	0.32
FEM6	End section 2.5mm² - 10mm² (Orange)	1SNA103126R1600	0.32
FEM6	End section 2.5mm² - 10mm² (White)	1SNA103312R2000	0.20
FEM6 V0	End section 2.5mm² - 10mm² (Beige) V0	1SNA198368R1700	0.40
FEM3A	End section for M4/6.3A Series (Grey)	1SNA116576R1500	0.25
FEM3AP	End section for M4/6.3A.P (Green)	1SNA199876R2600	0.32
FEM4A	End section for M4/6.4A (Grey)	1SNA116629R2200	0.25
FEM4AP	End section for M4/6.4A.P (Green)	1SNA199879R0100	0.32



6



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Terminals & connectors

Feed through terminal blocks

Accessories		Product Hierarchy 300008	
Type	Description	Order Code	Price
FEMS6	Compact end section for MS4/6 (Grey)	1SNA113885R0100	3.50
FEM6C	Circuit separator 2.5mm ² - 10mm ² (Grey) snaps onto dinrail, for CPM cover	1SNA114777R2400	0.48
SCMA5	Circuit separator 2.5mm ² - 10mm ² (Grey) fits into top of terminal	1SNA116728R2500	0.25
SCF6	Separator end section 2.5mm ² - 10mm ² (Grey) for CPM cover	1SNA118707R0300	0.37
SCF61	Separator end section 2.5mm ² - 10mm ² (Grey)	1SNA114202R2500	0.63
SCFM6	Separator end section 2.5mm ² - 10mm ² (Grey) snaps onto Dinrail, for CPM cover	1SNA114825R0500	0.52
SCFCV1-2	Separator end section (Grey) for CPV cover	1SNA116795R1100	1.52
BJMI6	Jumper bar - 2 pole (IP20)	1SNA176663R0000	3.50
BJMI6	Jumper bar - 3 pole (IP20)	1SNA176664R0100	3.50
BJMI6	Jumper bar - 4 pole (IP20)	1SNA176665R0200	3.50
BJMI6	Jumper bar - 5 pole (IP20)	1SNA176666R0300	3.50
BJMI6	Jumper bar - 10 pole (IP20)	1SNA176667R0400	3.50
EL6	Connector plate for linking two jumper bars together	1SNA173627R2100	0.24
PC6	Comb jumper bar - 2 pole for MS4/6 compact terminal	1SNA113546R1400	3.50
PC6	Comb jumper bar - 10 pole for MS4/6 compact terminal	1SNA113548R2600	1.07
EIP	Insulating tip for comb jumper bar	1SNA113550R2400	0.21
CPM	Protective cover (Clear) 0.5 metres	1SNA187312R1400	2.32
CPV1-2	Protective cover (Clear) 1 metre	1SNA176816R1200	9.82
AL2	Test socket 2mm dia.	1SNA163043R2100	0.23
FC2	Test plug 2mm diameter	1SNA007865R2600	1.22
CBM5	Screen bar 0.5mm thickness	1SNA178745R1400	0.37
CBM8	Screen bar 0.8mm thickness	1SNA178746R1500	0.47
EP6	Protection label for 4 x 6mm pitch blocks	1SNA163427R1700	0.25
VSP6	Nylon screw for EP6 label	1SNA163433R1500	0.25
EPU6	Yellow protection label (strip of 12 labels)	1SNA107038R2500	0.32



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Terminals & connectors

Feed through terminal blocks



Feed Through Terminal Blocks 6.0mm²

		Product Hierarchy 300002	
Type	Description	Order Code	Price
M6/8	6.0mm ² feed through terminal (Grey)	1SNA115118R1100	0.32
M6/8.N	6.0mm ² feed through terminal (Blue)	1SNA125118R1300	0.20
M6/8.P	6.0mm ² feed through terminal, Earth (Green/Yellow)	1SNA165114R1700	0.40
M6/8	6.0mm ² feed through terminal (Yellow)	1SNA105118R2000	0.27
M6/8.V0	6.0mm ² feed through terminal (Beige) V0	1SNA195118R1200	0.27
M6/8.1	6.0mm ² feed through terminal with partition (Grey)	1SNA115260R0300	0.28
M6/8.4	6.0mm ² feed through terminal with partition and 4mm dia. test socket (Grey)	1SNA115219R2600	0.27

Accessories

		Product Hierarchy 300008	
Type	Description	Order Code	Price
FEM6	End section 2.5mm ² - 10mm ² (Grey)	1SNA118368R1600	0.25
FEM6	End section 2.5mm ² - 10mm ² (Blue)	1SNA128368R1000	0.32
FEM6	End section 2.5mm ² - 10mm ² (Yellow)	1SNA103062R2100	0.25
FEM6	End section 2.5mm ² - 10mm ² (Green)	1SNA103125R1500	0.32
FEM6	End section 2.5mm ² - 10mm ² (Orange)	1SNA103126R1600	0.32
FEM6	End section 2.5mm ² - 10mm ² (White)	1SNA103312R2000	0.20
FEM6 V0	End section 2.5mm ² - 10mm ² (Beige) V0	1SNA198368R1700	0.40
FEM6C	Circuit separator 2.5mm ² - 10mm ² (Grey) snaps onto dinrail, for CPM cover	1SNA114777R2400	0.48
SCMA5	Circuit separator 2.5mm ² - 10mm ² (Grey) fits into top of terminal	1SNA116728R2500	0.25
SCF6	Separator end section 2.5mm ² - 10mm ² (Grey) for CPM cover	1SNA118707R0300	0.37
SCF61	Separator end section 2.5mm ² - 10mm ² (Grey)	1SNA114202R2500	0.63
SCFM6	Separator end section 2.5mm ² - 10mm ² (Grey) snaps onto dinrail, for CPM cover	1SNA114825R0500	0.52
SCFCV1-2	Separator end section (Grey) for CPV cover	1SNA116795R1100	1.52
BJMI8	Jumper bar - 2 pole (IP20)	1SNA116795R1100	1.52
BJMI8	Jumper bar - 3 pole (IP20)	1SNA176670R1300	0.78
BJMI8	Jumper bar - 4 pole (IP20)	1SNA176671R0000	0.90
BJMI8	Jumper bar - 5 pole (IP20)	1SNA176672R0100	2.60
BJMI8	Jumper bar - 10 pole (IP20)	1SNA176673R0200	0.78
EL6	Connector plate for linking two jumper bars together	1SNA173627R2100	0.24
PC8	Comb jumper bar - 10 pole	1SNA163313R2400	0.93
CPM	Protective cover (Clear) 0.5 metres	1SNA187312R1400	2.32
CPV1-2	Protective cover (Clear) 1 metre	1SNA176816R1200	9.82
AL2	Test socket 2mm dia.	1SNA163043R2100	0.23
AL4	Test socket 4mm dia.	1SNA163262R0100	0.97

6



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Terminals & connectors

Feed through terminal blocks

Accessories		Product Hierarchy 300008	
Type	Description	Order Code	Price
FC2	Test plug 2mm diameter	1SNA007865R2600	1.22
CBM5	Screen bar 0.5mm thickness	1SNA178745R1400	0.37
CBM8	Screen bar 0.8mm thickness	1SNA178746R1500	0.47
EP6	Protection label for 3 x 8mm pitch blocks	1SNA163427R1700	0.25
EP8	Protection label for 4 x 8mm pitch blocks	1SNA163428R2000	0.32
VSP6	Nylon screw for EP6 / EP8 Label	1SNA163433R1500	0.25
EPU6	Yellow protection label (strip of 12 labels)	1SNA107038R2500	0.32

Feed Through Terminal Blocks 10.0mm ²		Product Hierarchy 300002	
Type	Description	Order Code	Price
M10/10	10.0mm ² feed through terminal (Grey)	1SNA115120R1700	1.67
M10/10.N	10.0mm ² feed through terminal (Blue)	1SNA125120R1100	3.50
M10/10.P	10.0mm ² feed through terminal, Ground (Green/Yellow)	1SNA165115R1000	3.50
M10/10	10.0mm ² feed through terminal (Yellow)	1SNA105120R2600	3.50
M10/10.V0	10.0mm ² feed through terminal (Beige) V0	1SNA195120R1000	3.50
M10/10.V0	10.0mm ² feed through terminal (Blue) V0	1SNA199004R2000	3.50
M10/10	10.0mm ² feed through terminal (Black)	1SNA400188R0300	1.67
M10/10	10.0mm ² feed through terminal (Red)	1SNA400189R0400	3.50
M10/10.1	10.0mm ² feed through terminal with partition (Grey)	1SNA115261R2000	0.57

Accessories		Product Hierarchy 300008	
Type	Description	Order Code	Price
FEM6	End section 2.5mm ² - 10mm ² (Grey)	1SNA118368R1600	0.25
FEM6	End section 2.5mm ² - 10mm ² (Blue)	1SNA128368R1000	0.32
FEM6	End section 2.5mm ² - 10mm ² (Yellow)	1SNA103062R2100	0.25
FEM6	End section 2.5mm ² - 10mm ² (Green)	1SNA103125R1500	0.32
FEM6	End section 2.5mm ² - 10mm ² (Orange)	1SNA103126R1600	0.32
FEM6	End section 2.5mm ² - 10mm ² (White)	1SNA103312R2000	0.20
FEM6 V0	End section 2.5mm ² - 10mm ² (Beige) V0	1SNA198368R1700	0.40
FEM6C	Circuit separator 2.5mm ² - 10mm ² (Grey) snaps onto dinrail, for CPM cover	1SNA114777R2400	0.48
SCMA5	Circuit separator 2.5mm ² - 10mm ² (Grey) fits into top of terminal	1SNA116728R2500	0.25
SCF6	Separator end section 2.5mm ² - 10mm ² (Grey) for CPM cover	1SNA118707R0300	0.37
SCF61	Separator end section 2.5mm ² - 10mm ² (Grey)	1SNA114202R2500	0.63
SCFM6	Separator end section 2.5mm ² - 10mm ² (Grey) snaps onto dinrail, for CPM cover	1SNA114825R0500	0.52
SCFCV1-2	Separator end section (Grey) for CPV cover	1SNA116795R1100	1.52
CPM	Protective cover (Clear) 0.5 metres	1SNA187312R1400	2.32
CPV1-2	Protective cover (Clear) 1 metre	1SNA176816R1200	9.82



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Terminals & connectors

Feed through terminal blocks

Accessories		Product Hierarchy 300008	
Type	Description	Order Code	Price
AL2	Test socket 2mm diameter	1SNA163043R2100	0.23
AL4	Test socket 4mm diameter	1SNA163262R0100	0.97
FC2	Test plug 2mm diameter	1SNA007865R2600	1.22
BJMI10	Jumper bar - 2 pole (IP20)	1SNA176675R0400	0.32
BJMI10	Jumper bar - 3 pole (IP20)	1SNA176676R0500	0.20
BJMI10	Jumper bar - 4 pole (IP20)	1SNA176677R0600	0.40
BJMI10	Jumper bar - 5 pole (IP20)	1SNA176678R1700	0.48
BJMI10	Jumper bar - 10 pole (IP20)	1SNA176679R1000	0.25
PC10	Comb jumper bar - 10 pole	1SNA163315R2600	0.37
EP8	Protection label for 3 x 10mm blocks	1SNA163428R2000	0.32
VSP6	Nylon screw for EP8 label	1SNA163433R1500	0.25
EPU6	Yellow protection label (strip of 12 labels)	1SNA107038R2500	0.32

Feed Through Terminal Blocks 16.0mm ²		Product Hierarchy 300002	
Type	Description	Order Code	Price
M16/12	16.0mm ² feed through terminal (Grey)	1SNA115129R1400	0.63
M16/12.N	16.0mm ² feed through terminal (Blue)	1SNA125129R1600	0.52
M16/12.P	16.0mm ² feed through terminal, Ground (Green/Yellow)	1SNA165130R2300	1.52
M16/12.V0	16.0mm ² feed through terminal (Beige) V0	1SNA195129R1500	1.52

Accessories		Product Hierarchy 300008	
Type	Description	Order Code	Price
FEM12	End section 16mm ² (Grey)	1SNA118618R0100	1.30
FEM12	End section 16mm ² (Blue)	1SNA128618R0300	1.67
FEM12	End section 16mm ² (Yellow)	1SNA103065R2400	2.09
FEM12 V0	End section 16mm ² (Beige) V0	1SNA198618R0200	3.79
SCF12	Separator end section 16mm ² (grey) for CPM cover	1SNA113102R1000	0.24
SCF12V0	Separator end section 16mm ² (beige) V0	1SNA193102R1100	2.13
SCFCV1-2	Separator end section (Grey) for CPV cover	1SNA116795R1100	1.52
CPM	Protective cover (Clear) 0.5 metres	1SNA187312R1400	2.32
CPV1-2	Protective cover (Clear) 1 metre	1SNA176816R1200	9.82

6



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Terminals & connectors

Feed through terminal blocks

Feed Through Terminal Blocks 16.0mm ²		Product Hierarchy 300002	
Type	Description	Order Code	Price
M16/12	16.0mm ² feed through terminal (Grey)	1SNA115129R1400	0.63
M16/12.N	16.0mm ² feed through terminal (Blue)	1SNA125129R1600	0.52
M16/12.P	16.0mm ² feed through terminal, Ground (Green/Yellow)	1SNA165130R2300	1.52
M16/12.V0	16.0mm ² feed through terminal (Beige) V0	1SNA195129R1500	1.52

Accessories		Product Hierarchy 300008	
Type	Description	Order Code	Price
FEM12	End section 16mm ² (Grey)	1SNA118618R0100	1.30
FEM12	End section 16mm ² (Blue)	1SNA128618R0300	1.67
FEM12	End section 16mm ² (Yellow)	1SNA103065R2400	2.09
FEM12 V0	End section 16mm ² (Beige) V0	1SNA198618R0200	3.79
SCF12	Separator end section 16mm ² (grey) for CPM cover	1SNA113102R1000	0.24
SCF12V0	Separator end section 16mm ² (beige) V0	1SNA193102R1100	2.13
SCFCV1-2	Separator end section (Grey) for CPV cover	1SNA116795R1100	1.52
CPM	Protective cover (Clear) 0.5 metres	1SNA187312R1400	2.32
CPV1-2	Protective cover (Clear) 1 metre	1SNA176816R1200	9.82

Accessories		Product Hierarchy 300008	
Type	Description	Order Code	Price
AL2	Test socket 2mm diameter	1SNA163043R2100	0.23
AL4	Test socket 4mm diameter	1SNA163262R0100	0.97
FC2	Test plug 2mm diameter	1SNA007865R2600	1.22
BJMI12	Jumper bar - 2 pole (IP20)	1SNA179626R0600	2.32
BJMI12	Jumper bar - 3 pole (IP20)	1SNA179628R1000	9.82
BJMI12	Jumper bar - 4 pole (IP20)	1SNA179629R1100	0.23
BJMI12	Jumper bar - 5 pole (IP20)	1SNA179630R1600	3.53
BJMI12	Jumper bar - 10 pole (IP20)	1SNA179631R0300	1.33
EPU6	Yellow protection label (strip of 12 labels)	1SNA107038R2500	0.32

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Terminals & connectors

Feed through terminal blocks

6



Feed Through Terminal Blocks 35.0mm ²		Product Hierarchy 300002	
Type	Description	Order Code	Price
M35/16	35.0mm ² feed through terminal (Grey)	1SNA115124R0700	0.83
M35/16.VO	35.0mm ² feed through terminal (Beige) VO	1SNA195124R0000	1.05
M35/16.N	35.0mm ² feed through terminal (Blue)	1SNA125124R0100	1.41
M35/16.P	35.0mm ² feed through terminal, Ground (Green/Yellow)	1SNA165111R1400	3.65

Accessories - feed through terminals are enclosed no end section required		Product Hierarchy 300008	
Type	Description	Order Code	Price
SCFT1	Separator end section (grey)	1SNA103588R2600	1.07
SCFCV1-2	Separator end section (Grey) for CPV cover	1SNA116795R1100	1.52
CPV1-2	Protective cover (Clear) 1 metre	1SNA176816R1200	9.82
AL4	Test socket 4mm diameter	1SNA163262R0100	0.97
FC2	Test plug 2mm diameter	1SNA007865R2600	1.22
BJMI16	Jumper bar - 2 pole (IP20)	1SNA206217R0000	1.56
BJMI16	Jumper bar - 3 pole (IP20)	1SNA206218R1100	0.28
BJMI16	Jumper bar - 4 pole (IP20)	1SNA206219R1200	0.97
BJMI16	Jumper bar - 5 pole (IP20)	1SNA206220R1700	1.54
BJMI16	Jumper bar - 10 pole (IP20)	1SNA206221R0400	2.76

Feed Through Terminal Blocks 70.0mm ²		Product Hierarchy 300002	
Type	Description	Order Code	Price
M70/22	70.0mm ² feed through terminal (Grey)	1SNA115216R1300	1.54
M70/22.N	70.0mm ² feed through terminal (Blue)	1SNA125216R1500	1.11
M70/22.VO	70.0mm ² feed through terminal (Beige) VO	1SNA195216R1400	POA
M70/22.P	70.0mm ² feed through terminal, Ground (Green/Yellow) closed	1SNA399024R2300	0.97

Accessories - feed through terminals are enclosed no end section required		Product Hierarchy 300008	
Type	Description	Order Code	Price
FEM22	End section 70mm ² (Grey)	1SNA113065R1500	NF
FEM22	End section 70mm ² (Blue)	1SNA123065R1700	NF
FEM22	End section 70mm ² (Yellow)	1SNA103881R1400	NF
FEM22 VO	End section 70mm ² (Beige) VO	1SNA193065R1600	NF



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Terminal blocks

Mini feed through & fuse terminal blocks



1.5mm² Mini Feed Through Terminal Blocks

		Product Hierarchy 300002	
Type	Description	Order Code	Price
DR1,5/5.1	1.5mm² mini feed through terminal with partition (grey)	1SNA112086R0200	0.97

Accessories

		Product Hierarchy 300008	
Type	Description	Order Code	Price
FEDR5	End Section for 1.5mm² mini terminal	1SNA117318R2300	1.22
BJS5	Unassembled jumper bar - 20 pole	1SNA177652R0600	2.39
EVD5	Post and screw for BJS5 jumper	1SNA167900R0200	3.37
FC2	Test Plug 2mm² diameter	1SNA007865R2600	1.22



4.00mm² Mini Feed Through Terminal Blocks

		Product Hierarchy 300002	
Type	Description	Order Code	Price
DR4/6	4.0mm² feed through terminal (Grey)	1SNA110251R0500	2.77
DR4/6.1	4.0mm² feed through terminal with partition (Grey)	1SNA110491R1700	4.92
DR4/6.1.N	4.0mm² feed through terminal with partition (Blue)	1SNA120491R1100	1.04
DR4/6.P	4.0mm² feed through terminal block, Ground (Green / Yellow)	1SNA160496R2600	1.52

Accessories

		Product Hierarchy 300002	
Type	Description	Order Code	Price
FEDR61	End section for DR4/6 & DR4/6.1 terminal (Grey)	1SNA117600R0300	1.52
FEDR61	End section for DR4/6 & DR4/6.1 terminal (Blue)	1SNA127600R0500	POA
FEDR63	End section for DR4/6.P terminal (Yellow)	1SNA103975R2100	3.47
SCDR61	Separator end section for DR4/6 & DR4/6.1 terminals (Grey)	1SNA173016R1000	POA
BJM62	Jumper bar - 2 pole for DR4/6 terminal	1SNA173217R2600	POA
BJM62	Jumper bar - 4 pole for DR4/6 terminal	1SNA173219R0000	POA
BJM62	Jumper bar - 10 pole for DR4/6 terminal	1SNA173226R2700	17.72

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Terminal blocks

Mini feed through & fuse terminal blocks

4.00mm ² Mini Fuse Terminal Blocks		Product Hierarchy 300002	
Type	Description	Order Code	Price
DR4/8.SF	Fuse terminal (flip top) for 5x20, 5x25mm fuse (Grey)	1SNA110368R1200	17.35

Accessories		Product Hierarchy 300008	
Type	Description	Order Code	Price
FEM8S	End section for DR4/8.SF fuse terminal (Grey)	1SNA116951R1500	0.90
PC81	Comb jumper bar - 10 pole	1SNA173523R1100	0.25
TGA8	Assembly rod, 2 pole, to link flip top fuse terminals DR4/8.SF	1SNA168672R1100	2.35
ANT	Assembly ring locks TGA8 in place on flip top fuse terminals DR4/8.SF	1SNA168675R1400	0.31
FU520	5 x 20mm 250V 0.5A fuse	1SNA008288R1500	1.53
FU520	5 x 20mm 250V 1A fuse	1SNA008290R1300	1.80
FU520	5 x 20mm 250V 2A fuse	1SNA008291R0000	1.01
FU520	5 x 20mm 250V 3.15A fuse	1SNA008289R1600	1.68
FU520	5 x 20mm 250V 5A fuse	1SNA008292R0100	2.04
FU525	5 x 25mm 250V 2.5A fuse	1SNA167548R0400	1.08
FU525	5 x 25mm 250V 4A fuse	1SNA167549R0500	1.84
CN5	5 x 25mm neutral bar	1SNA179371R1600	2.26

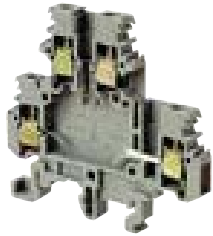
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Terminal blocks

Double deck feed through terminals



2.5mm² Double Deck Terminal Block

Product Hierarchy 300002

Type	Description	Order Code	Price
MA2,5/5.D2	2.5mm ² feed through terminal (Grey)	1SNA115490R1300	0.80
MA2,5/5.D2.N	2.5mm ² feed through terminal (Blue)	1SNA125490R1500	0.58
MA2,5/5.D2.V0	2.5mm ² feed through terminal (Beige) V0	1SNA195490R1400	0.75
MA2,5/5.D1.1	2.5mm ² feed through terminal with vertical interconnection and partition on lower deck (Grey)	1SNA115530R1200	1.97
MA2,5/5.D2.1	2.5mm ² feed through terminal with partition on upper and lower deck (Grey)	1SNA115491R0000	0.24

Accessories

Product Hierarchy 300008

Type	Description	Order Code	Price
FEM6D	End section 2.5mm ² - 4.0mm ² double deck (Grey)	1SNA118499R2300	0.34
FEM6D	End section 2.5mm ² - 4.0mm ² double deck (Blue)	1SNA128499R2500	0.20
FEM6D V0	End section 2.5mm ² - 4.0mm ² double deck (Beige) V0	1SNA198499R2400	0.86
SCMA5D	Circuit separator (fits on top of terminal) (Grey)	1SNA116720R2100	1.55
BJMI5D	Jumper bar - 2 pole (IP20)	1SNA176736R2100	3.68
BJMI5D	Jumper bar - 3 pole (IP20)	1SNA176737R2200	2.87
BJMI5D	Jumper bar - 4 pole (IP20)	1SNA176738R0300	0.40
BJMI5D	Jumper bar - 5 pole (IP20)	1SNA176739R0400	2.64
BJMI5D	Jumper bar - 10 pole (IP20)	1SNA176740R1100	0.61
PC5	Comb jumper bar - 10 poles	1SNA113544R1200	1.48
EIP	Insulating tip for comb jumper bar	1SNA113550R2400	0.21
ITV5	Vertical interconnection to convert from 2 circuit to 1 circuit terminal	1SNA176259R1300	0.24

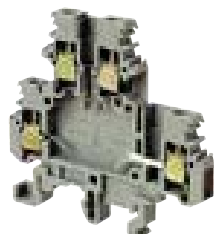
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Terminal blocks

Double deck feed through terminals



4.00mm² Double Deck Terminal Block

		Product Hierarchy 300002	
Type	Description	Order Code	Price
M4/6.D2	4.0mm double deck feed through terminal (Grey)	1SNA115271R2200	0.06
M4/6.D1	4.0mm double deck feed through terminal with vertical interconnection and partition on lower deck (Grey)	1SNA115166R1100	1.49
M4/6.D2.N	4.0mm double deck feed through terminal (Blue)	1SNA125271R2400	1.92
M4/6.D2.V0	4.0mm double deck feed through terminal (Beige) V0	1SNA195271R2300	1.88
M4/6.D2.1	4.0mm double deck feed through terminal with partition (Grey)	1SNA115126R0100	1.92
M4/6.D2.1.N	4.0mm double deck feed through terminal with partition (Blue)	1SNA125126R0300	1.49

Accessories

		Product Hierarchy 300008	
Type	Description	Order Code	Price
FEM6D	End section 2.5mm - 4.0mm double deck (Grey)	1SNA118499R2300	0.34
FEM6D	End section 2.5mm - 4.0mm double deck (Blue)	1SNA128499R2500	0.20
FEM6D V0	End section 2.5mm - 4.0mm double deck (Beige) V0	1SNA198499R2400	0.86
BJMI6D	Jumper bar - 2 pole (IP20)	1SNA179668R2000	1.49
BJMI6D	Jumper bar - 3 pole (IP20)	1SNA179669R2100	1.92
BJMI6D	Jumper bar - 4 pole (IP20)	1SNA179670R2600	1.88
BJMI6D	Jumper bar - 5 pole (IP20)	1SNA179671R1300	1.92
BJMI6D	Jumper bar - 10 pole (IP20)	1SNA179672R1400	1.49
EL6	Connector plate for linking two jumper bars together	1SNA173627R2100	0.24
PC61	Comb jumper bar - 10 pole	1SNA163311R2200	1.64
ITV6	Vertical interconnection to convert from 2 circuit to 1 circuit terminal	1SNA168962R0400	0.58

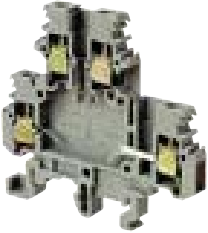
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Terminal blocks

Double deck terminals



6.00mm² Double Deck Terminal Block

Product Hierarchy 300002

Type	Description	Order Code	Price
M4/6.D2	6.0mm double deck feed through terminal (Grey)	1SNA115501R1200	0.58
M6/8.D1	6.0mm double deck feed through terminal with vertical interconnection and partition on lower deck (Grey)	1SNA115498R1700	0.77

Accessories

Product Hierarchy 300008

Type	Description	Order Code	Price
FEM8D1	End Section 6.0mm double deck, 1mm thick (Grey)	1SNA116656R2500	0.27
FEM8D2	End Section 6.0mm double deck, 4mm thick (Grey)	1SNA116657R2600	1.02
SCM6	Circuit separator (fits on top of terminal) (Grey)	1SNA113003R1000	1.42
SCF6D	Separator end section (grey)	1SNA118495R1700	1.74
AL2	Test socket 2mm diameter	1SNA163043R2100	0.23
AL4	Test socket 4mm diameter	1SNA163262R0100	0.97
FC2	Test plug 2mm diameter	1SNA007865R2600	1.22
BJM18	Jumper bar - 2 pole (IP20)	1SNA176669R1600	2.02
BJM18	Jumper bar - 3 pole (IP20)	1SNA176670R1300	0.78
BJM18	Jumper bar - 4 pole (IP20)	1SNA176671R0000	0.90
BJM18	Jumper bar - 5 pole (IP20)	1SNA176672R0100	2.60
BJM18	Jumper bar - 10 pole (IP20)	1SNA176673R0200	0.78

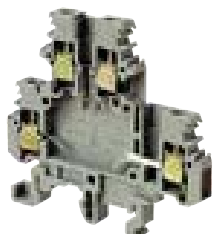


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Terminal blocks

Double deck terminals



4.00mm² Double Deck Blade Disconnect Terminal Block

		Product Hierarchy 300002	
Type	Description	Order Code	Price
M4/6.D2.SNBT	4.0mm ² double deck terminal with blade disconnect on upper deck (grey body / grey blade)	1SNA115561R1500	3.48

Accessories

		Product Hierarchy 300008	
Type	Description	Order Code	Price
FEMS6D	End section for M4/6.D2.SNBT	1SNA116591R0500	1.41
FC2	Test plug 2mm diameter	1SNA007865R2600	1.22
BJMI6D	Jumper bar - 2 pole (IP20)	1SNA179668R2000	1.49
BJMI6D	Jumper bar - 3 pole (IP20)	1SNA179669R2100	1.92
BJMI6D	Jumper bar - 4 pole (IP20)	1SNA179670R2600	1.88
BJMI6D	Jumper bar - 5 pole (IP20)	1SNA179671R1300	1.92
BJMI6D	Jumper bar - 10 pole (IP20)	1SNA179672R1400	1.49
EL6	Connector plate for linking two jumper bars together	1SNA173627R2100	0.24

4.00mm² Double Deck Lever Disconnect Terminal Block

		Product Hierarchy 300002	
Type	Description	Order Code	Price
M4/6.D2.2S2	4.0mm ² double deck terminal with lever disconnect on both decks (grey body / 1 grey lever & 1 black lever)	1SNA199444R2500	0.37

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Terminal blocks

Double deck terminals



4.00mm² Double Deck Component Holder Terminal Block

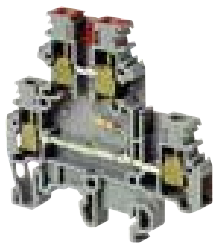
Product Hierarchy 300002

Type	Description	Order Code	Price
M4/6.DE1	4.0mm ² double deck component holder terminal (lower circuit only) (Grey)	1SNA115177R1400	1.92
M4/6.DE2	4.0mm ² double deck component holder terminal (upper circuit only) (Grey)	1SNA115326R1100	1.59
M4/6.DE	4.0mm ² double deck component holder terminal (both upper and lower circuit) (Grey)	1SNA115185R0500	1.74

Accessories

Product Hierarchy 300008

Type	Description	Order Code	Price
FEM6D	End Section 2.5mm - 4.0mm double deck (Grey)	1SNA118499R2300	0.34
BJMI6D	Jumper bar - 2 pole (IP20)	1SNA179668R2000	1.49
BJMI6D	Jumper bar - 3 pole (IP20)	1SNA179669R2100	1.92
BJMI6D	Jumper bar - 4 pole (IP20)	1SNA179670R2600	1.88
BJMI6D	Jumper bar - 5 pole (IP20)	1SNA179671R1300	1.92
BJMI6D	Jumper bar - 10 pole (IP20)	1SNA179672R1400	1.49
EL6	Connector plate for linking two jumper bars together	1SNA173627R2100	0.24



4.00mm² Double Deck Diode Terminal Block

Product Hierarchy 300002

Type	Description	Order Code	Price
M4/6.DE2.D	4.0mm ² double deck diode terminal with two negative outputs (Grey)	1SNA115327R1200	1.54
M4/6.DE1.D	4.0mm ² double deck diode terminal with one negative output (Grey)	1SNA115371R2600	1.92
M4/6.DD	4.0mm ² double deck diode terminal with cathode connected to lower deck (Grey)	1SNA115168R2300	1.05
M4/6.DD1	4.0mm ² double deck diode terminal with cathode connected to upper deck (Grey)	1SNA115184R0400	0.98

Accessories

Product Hierarchy 300008

Type	Description	Order Code	Price
FEM6D	End Section 2.5mm - 4.0mm double deck (Grey)	1SNA118499R2300	0.34
BJMI6D	Jumper bar - 2 pole (IP20)	1SNA179668R2000	1.49
BJMI6D	Jumper bar - 3 pole (IP20)	1SNA179669R2100	1.92
BJMI6D	Jumper bar - 4 pole (IP20)	1SNA179670R2600	1.88
BJMI6D	Jumper bar - 5 pole (IP20)	1SNA179671R1300	1.92
BJMI6D	Jumper bar - 10 pole (IP20)	1SNA179672R1400	1.49
EL6	Connector plate for linking two jumper bars together	1SNA173627R2100	0.24



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Terminal blocks

Double deck terminals

6



4.00mm² Double Deck Indicator Terminal Block

**Product Hierarchy
300002**

Type	Description	Order Code	Price
M4/6.DN	4.0mm ² double deck terminal with 110VAC / 127VDC neon lamp (Grey)	1SNA115182R0200	1.26

Accessories

**Product Hierarchy
300008**

Type	Description	Order Code	Price
FEM6D	End Section 2.5mm - 4.0mm double deck (Grey)	1SNA118499R2300	0.34
BJMI6D	Jumper bar - 2 pole (IP20)	1SNA179668R2000	1.49
BJMI6D	Jumper bar - 3 pole (IP20)	1SNA179669R2100	1.92
BJMI6D	Jumper bar - 4 pole (IP20)	1SNA179670R2600	1.88
BJMI6D	Jumper bar - 5 pole (IP20)	1SNA179671R1300	1.92
BJMI6D	Jumper bar - 10 pole (IP20)	1SNA179672R1400	1.49
EL6	Connector plate for linking two jumper bars together	1SNA173627R2100	0.24

4.00mm² Double Deck Fuse Terminal Block

**Product Hierarchy
300002**

Type	Description	Order Code	Price
M4/8.D2.SFL	4.0mm ² double deck terminal 5 x 20 / 5 x 25mm flip top fuse holder and 110-230V neon lamp (Grey)	1SNA115466R2200	1.61
M4/8.D2.SFD	4.0mm ² double deck terminal 5 x 20 / 5 x 25mm flip top fuse holder and 24V LED (Grey)	1SNA115647R2300	4.73
M4/8.SFJ	4.0mm ² double deck terminal 5 x 20 / 5 x 25mm flip top fuse holder with internal jumper option (Grey)	1SNA115692R1100	1.44

Accessories

**Product Hierarchy
300008**

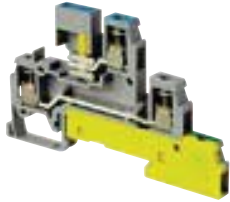
Type	Description	Order Code	Price
FEM8D2S	End section for double deck fuse holder terminals (Grey)	1SNA116913R0700	1.64
BJMI8	Jumper bar - 2 pole (IP20)	1SNA176669R1600	2.02
BJMI8	Jumper bar - 3 pole (IP20)	1SNA176670R1300	0.78
BJMI8	Jumper bar - 4 pole (IP20)	1SNA176671R0000	0.90
BJMI8	Jumper bar - 5 pole (IP20)	1SNA176672R0100	2.60
BJMI8	Jumper bar - 10 pole (IP20)	1SNA176673R0200	0.78



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Terminal blocks

Double deck terminals



4.00mm² Double Deck + Protection Terminal Block

Product Hierarchy 300002

Type	Description	Order Code	Price
D4/6.NTLP	4.0mm² neutral disconnect, live feed through and ground connection terminal block (Grey / Green / Yellow)	1SNA110439R2200	2.67
D4/6.NLP	4.0mm² neutral feed through, live feed through and ground connection terminal block (Grey / Green / Yellow)	1SNA110440R0700	3.75

Accessories

Product Hierarchy 300008

Type	Description	Order Code	Price
FED6	End section for D4/6.NL blocks	1SNA116964R1200	0.50



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Terminal blocks

Triple deck terminals



4.00mm² Triple Deck Fuse Terminal Block

		Product Hierarchy 300002	
Type	Description	Order Code	Price
D4/6.T1	4.0mm ² triple deck feed through terminal with vertical interconnection (Black) V0 closed block	1SNA199219R0300	0.52
D4/6.T3	4.0mm ² triple deck feed through terminal (Grey) V0 closed block	1SNA299683R0100	0.25
D4/6.T3.P	4.0mm ² triple deck feed through terminal with 1 earth connection (Grey) V0 closed block	1SNA299684R0200	0.50
D4/6.PT1	4.0mm ² triple deck terminal with 7 earth connection (Green /Yellow) V0 closed block	1SNA199220R0000	0.89

Accessories

		Product Hierarchy 300008	
Type	Description	Order Code	Price
BJM62	Jumper bar - 2 pole fits D4/6.T3 & D4/6.T3P	1SNA173217R2600	POA
BJM62	Jumper bar - 4 pole fits D4/6.T3 & D4/6.T3P	1SNA173219R0000	POA
BJM62	Jumper bar - 10 pole fits D4/6.T3 & D4/6.T3P	1SNA173226R2700	17.72
PC61	Comb jumper bar - 10 pole fits all 6mm spacing triple decks terminals	1SNA163311R2200	1.64

6



2.5mm² Triple Deck Sensor Terminal Block

		Product Hierarchy 300002	
Type	Description	Order Code	Price
D2.5/6.DA	2.5mm ² triple deck feed through terminal (Grey)	1SNA115541R1100	2.25
D2.5/6.DAL	2.5mm ² triple deck feed through terminal with 24VDC red LED between upper and middle deck (Grey)	1SNA115535R0300	0.55
D2.5/6.DAL2	2.5mm ² triple deck feed through terminal with 24VDC green LED between lower and middle deck (Grey)	1SNA115547R1700	3.86
D2.5/6.D	2.5mm ² triple deck sensor terminal (Grey)	1SNA115542R1200	3.80
D2.5/6.DL	2.5mm ² triple deck sensor terminal with 24VDC red LED between upper and middle deck (Grey)	1SNA115537R0500	4.70

Accessories

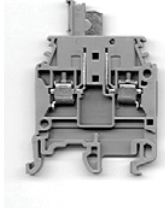
		Product Hierarchy 300008	
Type	Description	Order Code	Price
FED3E	End section for triple deck sensor terminals (Grey)	1SNA116771R2000	6.21



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Terminal blocks

Disconnect terminals



2.5mm² Disconnect (Switch) Terminal Block

		Product Hierarchy 300002	
Type	Description	Order Code	Price
MA2.5/5.SNB	2.5mm ² disconnect terminal (Grey body, short grey blade)	1SNA115504R1500	0.47
MA2.5/5.SNBTA	2.5mm ² disconnect terminal (Grey body, short grey blade) with 2 test sockets 2.3mm diameter	1SNA115505R1600	1.00
MA2.5/5.SNB	2.5mm ² disconnect terminal (Grey body, short orange blade)	1SNA115699R2000	1.12

Accessories

		Product Hierarchy 300008	
Type	Description	Order Code	Price
FEM6	End Section 2.5mm ² disconnect terminal (Grey)	1SNA118368R1600	0.25
SCF6	Separator end section 2.5mm ² - 10mm ² (Grey) for CPM cover	1SNA118707R0300	0.37
SCFM6	Separator end section 2.5mm ² - 10mm ² (Grey) snaps onto dinrail, for CPM cover	1SNA114825R0500	0.52
PC5	Comb jumper bar - 10 poles	1SNA113544R1200	1.48
CBM5	Screen bar 0.5mm thickness	1SNA178745R1400	0.37
CBM8	Screen bar 0.8mm thickness	1SNA178746R1500	0.47

4.0mm² Disconnect (Switch) Terminal Block

		Product Hierarchy 300002	
Type	Description	Order Code	Price
M4/6.SNB	4.0mm ² disconnect terminal (Orange body, short orange blade)	1SNA105053R2200	0.11
M4/6.SNBT	4.0mm ² disconnect terminal (Orange body, short orange blade) with 2 test sockets 2.3mm diameter	1SNA105054R2300	3.06
M4/6.SNB	4.0mm ² disconnect terminal (Grey body, short orange blade)	1SNA115986R0000	0.23
M4/6.SNBT	4.0mm ² disconnect terminal (Grey body, short orange blade) with 2 test sockets 2.3mm diameter	1SNA115987R0100	1.55
M4/6.SNB	4.0mm ² disconnect terminal (Blue body, short orange blade)	1SNA125686R1500	1.33
M4/6.SNB	4.0mm ² disconnect terminal (Grey body, long grey blade)	1SNA115686R1300	0.81

Accessories

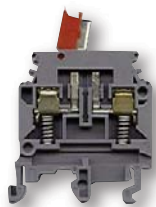
		Product Hierarchy 300008	
Type	Description	Order Code	Price
FEM62	End Section 4.0mm ² disconnect terminal (Grey)	1SNA114994R0700	1.18
FEM62	End Section 4.0mm ² disconnect terminal (Orange)	1SNA103612R2500	1.79
SCFM6	Separator end section 2.5mm ² - 10mm ² (Grey) snaps onto dinrail, for CPM cover	1SNA114825R0500	0.52
CBM5	Screen bar 0.5mm thickness	1SNA178745R1400	0.37
CBM8	Screen bar 0.8mm thickness	1SNA178746R1500	0.47



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Terminal blocks

Disconnect terminals



2.5mm² Disconnect (Switch) Terminal Block

		Product Hierarchy 300002	
Type	Description	Order Code	Price
M4/6.SNTS	4.0mm ² disconnect safety terminal (Beige body, short orange blade) with 2 test sockets 2mm ² dia	1SNA195229R2100	5.99

Accessories

		Product Hierarchy 300008	
Type	Description	Order Code	Price
FEM6	End section for M4/6.SNTS disconnect terminal (grey)	1SNA118368R1600	0.25
SCF6	Separator end section 2.5mm ² - 10mm ² (Grey) for CPM cover	1SNA118707R0300	0.37
SCFM6	Separator end section 2.5mm ² - 10mm ² (Grey) snaps onto dinrail, for CPM cover	1SNA114825R0500	0.52
CBM5	Screen bar 0.5mm thickness	1SNA178745R1400	0.37
CBM8	Screen bar 0.8mm thickness	1SNA178746R1500	0.47



4.0mm² Disconnect (Pluggable) Terminal Block

		Product Hierarchy 300002	
Type	Description	Order Code	Price
M4/6.SNBTA	4.0mm ² disconnect terminal with plug (grey body, grey plug) with 2 test sockets 2.3mm diameter	1SNA115496R0500	3.62

Accessories

		Product Hierarchy 300008	
Type	Description	Order Code	Price
FEM62	End section 4.0mm ² disconnect (pluggable) terminals (Grey)	1SNA114994R0700	1.18
SCFM6	Separator end section 2.5mm ² - 10mm ² (Grey) snaps onto dinrail, for CPM cover	1SNA114825R0500	0.52
CBM5	Screen bar 0.5mm thickness	1SNA178745R1400	0.37
CBM8	Screen bar 0.8mm thickness	1SNA178746R1500	0.47

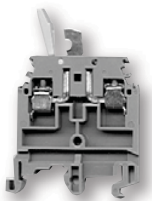
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Terminal blocks

Disconnect terminals



6.0mm² Disconnect (Switch) Terminal Block

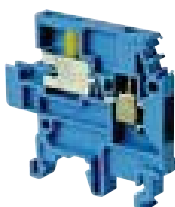
**Product Hierarchy
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Type	Description	Order Code	Price
M6/8.SNB	6.0mm ² disconnect terminal (grey body, long grey blade)	1SNA115688R2500	3.85
M6/8.STP	6.0mm ² push turn disconnect terminal (Grey body, yellow knob)	1SNA115277R2000	8.50

Accessories

**Product Hierarchy
300008**

Type	Description	Order Code	Price
FEM8	End Section 6.0mm ² for M6/8.SNB disconnect terminal (grey)	1SNA113373R2600	POA
FEMT1	End Section 6.0mm ² for M6/8.STP disconnect terminal (grey)	1SNA113137R0200	10.50
PC8	Comb type jumper bar 10 way	1SNA163313R2400	0.93



6.0mm² Interruptible Neutral Terminal Block

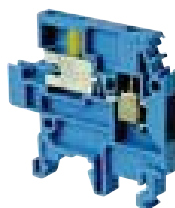
**Product Hierarchy
300002**

Type	Description	Order Code	Price
M6/8.NT	6.0mm ² Neutral terminal with sliding link disconnect. Same profile as M6/8	1SNA125119R1400	5.36

Accessories

**Product Hierarchy
300008**

Type	Description	Order Code	Price
FEM6	End section 2.5mm ² - 10mm ² (Blue)	1SNA128368R1000	0.32
B03	10mm ² x 3mm ² copper busbar 1 metre	1SNA164406R2400	0.72
VRB3	Busbar lock	1SNA128035R1600	3.68



10mm² Interruptible Neutral Terminal Block

Product Hierarchy 300002

Type	Description	Order Code	Price
M10/10.NT	10mm ² Neutral Block with sliding link disconnect. Same profile as M10/10	1SNA125121R0600	3.22

Accessories

**Product Hierarchy
300008**

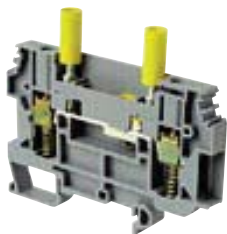
Type	Description	Order Code	Price
FEM6	End Section 2.5mm ² - 10mm ² (Blue)	1SNA128368R1000	0.32
B03	10mm ² x 3mm ² copper busbar 1 metre	1SNA164406R2400	0.72
VRB3	Busbar lock	1SNA128035R1600	3.68



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Terminal blocks

Disconnect terminals



6.0mm² Sliding Link Disconnect Terminal Block

		Product Hierarchy 300002	
Type	Description	Order Code	Price
M6/8.ST1	6.0mm ² sliding link disconnect terminal block	1SNA115236R1700	0.42
M6/8.ST4	6.0mm ² sliding link disconnect terminal block for jumper bars on right side (grey)	1SNA115240R0700	4.73
M6/8.ST5	6.0mm ² sliding link disconnect terminal block for jumper bars on left side (grey)	1SNA115241R2400	3.75
M6/8.ST6	6.0mm ² sliding link disconnect terminal block for jumper bars left and right sides (grey)	1SNA115242R2500	6.34
M6/8.ST7	6.0mm ² feed through terminal (same profile as sliding link disconnect blocks) (grey)	1SNA115243R2600	6.88
M6/8.ST7.V0	6.0mm ² feed through terminal (same profile as sliding link disconnect blocks) (beige)	1SNA195243R2700	2.86
M6/8.ST1.V2.IP20	6.0mm ² sliding link disconnect terminal block with 2 x 4mm IP20 test sockets (grey)	1SNA115971R1000	4.54
M6/8.ST1.V0.IP20	6.0mm ² sliding link disconnect terminal block with 2 x 4mm IP20 test sockets (beige)	1SNA195639R2400	4.54
D6/8.ST1.RS	6.0mm ² sliding link disconnect safety terminal block with 2 x 4mm IP20 test sockets (grey)	1SNA115831R0400	1.62

Accessories

		Product Hierarchy 300008	
Type	Description	Order Code	Price
FEMT2	End Section for M6/8.ST series of disconnect blocks (grey)	1SNA113629R2700	3.58
FEMT2.V0	End Section for M6/8.ST1.V2.IP20 disconnect block (beige)	1SNA193629R2000	0.45
FEM8T6	End section for D6/8.ST1.RS disconnect terminal (Grey)	1SNA215266R0100	3.31
SCFT2	Separator End Section for M6/8.ST series of disconnect blocks (grey)	1SNA114522R0500	0.71
SCFT2.V0	Separator End Section for M6/8.ST series of disconnect blocks (beige)	1SNA194522R0600	3.26
AL4	4mm test socket	1SNA163313R2400	0.93
PC8	Comb jumper bar - 10 pole	1SNA163313R2400	0.93
PCS4	Sliding switch bridge - 4 pole	1SNA199870R0400	2.59
PCS2	Sliding switch bridge - 2 pole	1SNA199871R2100	2.98

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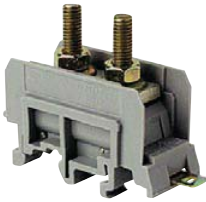


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Terminal blocks

Power terminals



Single Stud Terminals

		Product Hierarchy 300002	
Type	Description	Order Code	Price
M35/26.F	1 x M6 studs (Grey)	1SNA115141R1000	2.13
M70/31.F	1 x M8 studs (Grey)	1SNA115144R1300	4.33
M120/35.F	1 x M8 studs (Grey)	1SNA115147R1600	3.05

Double Stud Terminals

D35/27.FF	2xM6 studs (Grey) V0	1SNA190001R2000	1.12
D70/32.FF	2xM8 studs (Grey) V0	1SNA190002R2100	0.11
D120/42.FF	2xM10 studs (Grey) V0	1SNA190003R2200	3.06
D185/55.FF	2xM12 studs (Grey) V0	1SNA190004R2300	1.38
D300/55.FF	2xM16 studs (Grey) V0	1SNA190005R2400	1.74
M35/26.FF	2 x M6 studs (Grey)	1SNA115140R2300	3.91
M70/31.FF	2 x M8 studs (Grey)	1SNA115143R1200	1.58
M120/35.FF	2 x M8 studs (Grey)	1SNA115146R1500	0.52
M300/42.FF	2 x M10 studs (Grey)	1SNA115149R2000	0.36

Accessories

		Product Hierarchy 300008	
Type	Description	Order Code	Price
CPUF35	Covers for D35/27.FF (2 required per terminal)	1SNA190016R1600	0.41
CPUF70	Covers for D70/32.FF (2 required per terminal)	1SNA190017R1700	0.58
CPUF120	Covers for D120/42.FF (2 required per terminal)	1SNA190018R2000	0.67
CPUF185	Covers for D185/55.FF & D300/55.FF (2 required per terminal)	1SNA190019R2100	0.78
BJS27	Jumper bar 2 way for D35/27.FF	1SNA205772R1300	1.52
BJS27	Jumper bar 3 way for D35/27.FF	1SNA205773R1400	2.32
BJS32	Jumper bar 2 way for D70/32.FF	1SNA205774R1500	9.82
BJS32	Jumper bar 3 way for D70/32.FF	1SNA205775R1600	0.23
BJS42	Jumper bar 2 way for D120/42.FF	1SNA205776R1700	12.85
BJS42	Jumper bar 3 way for D120/42.FF	1SNA205777R1000	1.33
BJS551	Jumper bar 2 way for D185/55.FF & D300/55.FF	1SNA205778R2100	1.18
BJS551	Jumper bar 3 way for D185/55.FF & D300/55.FF	1SNA205779R2200	1.72
ECP26	Partition for M35/26.F & .FF terminals (Grey)	1SNA113689R2400	2.37
ECP31	Partition for M70/31.F & .FF terminals (Grey)	1SNA113690R2100	3.53
ECP35	Partition for M120/35.F & .FF terminals (Grey)	1SNA113691R1600	5.39
ECP42	Partition for M300/42.FF terminals (Grey)	1SNA113692R1700	3.06
CPP261	Cover for 1 x M35/36.F or .FF terminal (2 ECP26 partitions required) (Clear)	1SNA168202R1300	4.60
CPP262	Cover for 2 x M35/36.F or .FF terminals (2 ECP26 partitions required) (Clear)	1SNA168201R1200	1.51
CPP263	Cover for 3 x M35/36.F or .FF terminals (2 ECP26 partitions required) (Clear)	1SNA163403R2000	2.52
CPP311	Cover for 1 x M70/32.F or .FF terminal (2 ECP31 partitions required) (Clear)	1SNA168204R1500	1.20
CPP312	Cover for 2 x M70/32.F or .FF terminals (2 ECP31 partitions required) (Clear)	1SNA168203R1400	0.25



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Terminal blocks

Power terminals

Accessories		Product Hierarchy 300002	
Type	Description	Order Code	Price
CPP313	Cover for 3 x M70/32.F or .FF terminals (2 ECP31 partitions required) (Clear)	1SNA163409R0600	0.37
CPP351	Cover for 1 x M120/32.F or .FF terminal (2 ECP35 partitions required) (Clear)	1SNA168206R1700	0.52
CPP352	Cover for 2 x M120/32.F or .FF terminals (2 ECP35 partitions required) (Clear)	1SNA168205R1600	1.48
CPP353	Cover for 3 x M120/32.F or .FF terminals (2 ECP35 partitions required) (Clear)	1SNA163418R2600	0.37
CPP422	Cover for 2 x M300/42.FF terminals (2 ECP42 partitions required) (Clear)	1SNA168207R1000	0.47
CPP423	Cover for 3 x M300/42.FF terminals (2 ECP42 partitions required) (Clear)	1SNA163424R1400	2.34

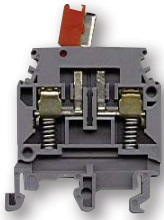
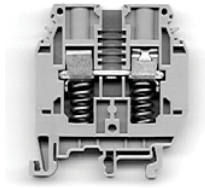
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Terminal blocks

Security terminals



Safety Connection Terminal Blocks

Product Hierarchy 300002

Type	Description	Order Code	Price
M4/6.RS	4.0mm feed through terminal with safety connection (Grey)	1SNA115930R1300	2.76
M6/8.RS	6.0mm feed through terminal with safety connection (Grey)	1SNA115685R1200	1.51
M10/10.RS	10.0mm feed through terminal with safety connection (Grey)	1SNA115320R2700	1.55
M4/6.SNTS	4.0mm disconnect terminal (Grey body, short orange blade) with safety connection	1SNA115229R2000	2.31
M6/8.STPRS	6.0mm feed through terminal with safety connection (Grey) with 1/4 turn disconnect	1SNA115678R0200	2.27

Accessories

Product Hierarchy 300008

Type	Description	Order Code	Price
FEMR8	End section for M4/6.RS & M6/8.RS	1SNA116987R0200	0.30
FEMR10	End section for M10/10.RS	1SNA114434R0500	0.30
FEM6	End section for M4/6.SNTS	1SNA118368R1600	0.25
FEMR8T	End section for M6/8.STPRS	1SNA116991R0600	0.52
AL4	4.0mm Test socket for M6/8.RS	1SNA179762R1600	0.37
BP8.A4	Bridging plug, 2 pole for M6/8.RS	1SNA173888R2000	0.47
BJS10	Unassembled jumper bar, 2 pole for M10/10.RS	1SNA164585R1700	2.52
BJS10	Unassembled jumper bar, 10 pole for M10/10.RS	1SNA164588R2200	3.16
BJS10	Unassembled jumper bar, 20 pole for M10/10.RS	1SNA177654R0000	3.78
PL101	Central socket and screw for unassembled jumper bar for M10/10.RS	1SNA163181R1100	6.25
BJS8	Unassembled jumper bar, 2 pole for M6/8.RS	1SNA164581R1300	7.58
BJS8	Unassembled jumper bar, 3 pole for M6/8.RS	1SNA164582R1400	11.70
BJS8	Unassembled jumper bar, 5 pole for M6/8.RS	1SNA164737R2600	13.93
EV6I	Screw, post and washer for jumper bar for M4/6.RS and M6/8.RS	1SNA206394R0200	18.06
EP6	Protection label for 4 x 6mm pitch blocks	1SNA163427R1700	0.25
VSP6	Nylon screw for EP6 label	1SNA163433R1500	0.25

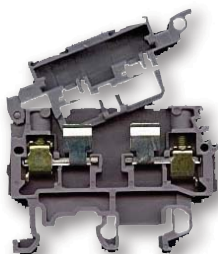


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Terminal blocks

Fuse terminals



4.0mm² Fuse Terminal Blocks

		Product Hierarchy 300002	
Type	Description	Order Code	Price
M4/8.SF	Fuse terminal (flip top) for 5x20, 5x25mm fuse (Grey)	1SNA115657R2500	0.30
M4/8.SF2	Fuse terminal (flip top) for 5x20, 5x25mm fuse (Orange)	1SNA105135R1100	0.30
M4/8.SF.V0	Fuse terminal (flip top) for 5x20, 5x25mm fuse (Beige) V0	1SNA195657R2600	2.22
M4/8.SFL	Fuse terminal (flip top) for 5x20, 5x25mm fuse (Grey) with green neon lamp 110-230V	1SNA115661R2100	14.93
M4/8.SFD	Fuse terminal (flip top) for 5x20, 5x25mm fuse (Grey) with 24V LED	1SNA115663R2300	0.08
M4/8.SFDT	Fuse terminal (flip top) for 5x20, 5x25mm fuse (Grey) with 24V LED and 2 test sockets 2mm	1SNA115665R2500	2.22
M4/8.SN2	Fuse terminal (flip top) complete with CN5 neutral bar (Grey blue, Blue lever)	1SNA115659R0700	14.93
M4/8.SN2	Fuse terminal (flip top) complete with CN5 neutral bar (Orange)	1SNA105136R1200	0.08
M4/6.SB	Disconnect terminal for BFAUTO mini automotive fuse holder (Grey)	1SNA115435R0700	3.21

Accessories

		Product Hierarchy 300008	
Type	Description	Order Code	Price
FEM8S	End section for M4/8.SF fuse terminal (Grey)	1SNA116951R1500	0.90
FEM8S	End section for M4/8.SF fuse terminal (Orange)	1SNA103923R1500	POA
FEM8S	End section for M4/8.SF fuse terminal (Beige) V0	1SNA196951R1600	3.26
PC81	Jumper bar (comb style) 10 way	1SNA173523R1100	0.25
TGA8	Assembly rod, 2 pole, to link flip top fuse carriers M4/8.SF M4/8.SN series.	1SNA168672R1100	2.35
ANT	Assembly ring locks TGA8 in place on flip top fuse carriers M4/8.SF M4/8.SN series.	1SNA168675R1400	0.31

4.0mm² Double Deck Fuse Terminal Blocks

		Product Hierarchy 300002	
Type	Description	Order Code	Price
M4/8.D2.SF	Fuse terminal (flip top) for 5x20, 5x25mm fuse (Grey)	1SNA115604R2100	POA

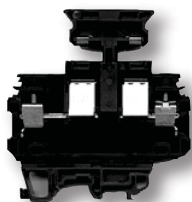
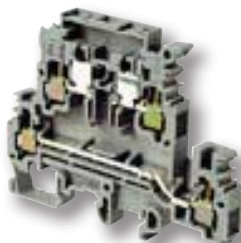
6.0mm² Fuse Terminal Blocks

M10/16.SF1	6mm Fuse terminal (pull top) for 11/32" x 1 1/4" fuse (Grey body & holder) closed block	1SNA115375R2200	1.65
M10/16.SN1	6mm Fuse terminal (pull top) for 11/32" x 1 1/4" fuse (Grey body blue holder) closed block	1SNA115376R2300	1.73
M10/16.SF	6mm Fuse terminal (pull top) for 1/4" x 1 1/4" fuse (Grey body & holder) closed block	1SNA115377R2400	4.28
M10/16.SN	6mm Fuse terminal (pull top) for 1/4" x 1 1/4" fuse (Grey body blue holder) closed block	1SNA115379R0600	4.92

Accessories

		Product Hierarchy 300008	
Type	Description	Order Code	Price
PC16	Comb jumper bar, 4 pole for M10/16.SF terminals	1SNA116734R1300	4.05
PC16	Comb jumper bar, 10 poles for M10/16.SF terminals	1SNA116735R1400	0.50
FEM8D2S	End section for M4/8.D2.SF terminals	1SNA116913R0700	1.64

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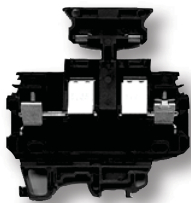


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Terminal blocks

Fuse terminals



10mm² Fuse Terminal Blocks

Product Hierarchy 300002

Type	Description	Order Code	Price
MB10/12.SF	10mm Fuse terminal (screw top) for 5x20, 5x25mm fuse (Grey)	1SNA111033R0300	3.70
MB10/12.SFL	10mm Fuse terminal (screw top) for 5x20, 5x25mm fuse (Grey) with neon fuse blown indication (110/220v)	1SNA111034R0400	5.90
MB10/22.SF	10mm Fuse terminal (pull top) for 11/32" x 1 1/2" fuse (Grey body & holder) closed block	1SNA116302R2300	7.53
MB10/22.SN	10mm Fuse terminal (pull top) for 11/32" x 1 1/2" fuse (Grey body blue holder) closed block	1SNA116304R2500	9.41
MU10/14.5.SF1	10mm Fuse terminal (pull top) for 5x20 & 5x25mm fuse (Black body & holder) closed block	1SNA199011R1600	1.14
MU10/14.5.SF2	10mm Fuse terminal (pull top) for 1/4" x 1 1/4" fuse (Black body & holder) closed block	1SNA199013R1000	1.30
MU10/13.SF2	10mm Fuse terminal (pull top) for 1/4" x 1 1/4" fuse (Black body & holder) open block	1SNA199014R1100	1.65
MU10/13.SN3	10mm Fuse terminal (pull top) for 1/4" x 1 1/4" fuse (Black body & blue holder) open block	1SNA199021R1000	2.35
ML10/13.SF	10mm Fuse terminal (flip top) for 1/4" x 1 1/4" fuse (Black body & holder) open block	1SNA199095R1300	5.17
ML10/13.SN	10mm Fuse terminal (flip top) for 1/4" x 1 1/4" fuse (Black body & blue holder) open block	1SNA199105R2200	5.17

Accessories

Product Hierarchy 300008

Type	Description	Order Code	Price
FEM12S	End section for MB10/12 fuse blocks	1SNA117628R2200	12.42
FEM13U	End section for MU10/13 & ML10/13 fuse blocks	1SNA199635R2400	15.02
BJS131	Unassembled jumper bar, 10 pole for MU10/13 series fuse terminals	1SNA175991R1100	12.85
VJS11	Screw for BJS131 jumper bar	1SNA163394R2600	4.87
RJD11	Washer for BJS131 jumper bar	1SNA168783R0100	14.14
PC13	Comb jumper bar 10 pole for MU10/13 series fuse terminals	1SNA173510R2000	13.51
BJS12	Unassembled jumper bar, 20 pole for MB10/12 series fuse terminals	1SNA177653R0700	0.44
	Screw for BJS12 jumper bar	1SNA163574R2200	0.50
	Washer for BJS12 jumper bar	1SNA163633R2500	0.73
PC22	Comb jumper bar 3 pole for MB10/22 series fuse terminals	1SNA205295R0600	0.87
PC22	Comb jumper bar 10 pole for MB10/22 series fuse terminals	1SNA174151R2500	0.94



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Terminal blocks

Fuse terminals

Accessories		Product Hierarchy 300008	
Type	Description	Order Code	Price
FU520	5 x 20mm 250V 0.5A fuse	1SNA008288R1500	1.53
FU520	5 x 20mm 250V 1A fuse	1SNA008290R1300	1.80
FU520	5 x 20mm 250V 2A fuse	1SNA008291R0000	1.01
FU520	5 x 20mm 250V 3.15A fuse	1SNA008289R1600	1.68
FU520	5 x 20mm 250V 5A fuse	1SNA008292R0100	2.04
FU525	5 x 25mm 250V 2.5A fuse	1SNA167548R0400	1.08
FU525	5 x 25mm 250V 4A fuse	1SNA167549R0500	1.84
CN5	5 x 25mm neutral bar	1SNA179371R1600	2.26
FU103	10.3 x 38mm 500V 8A fuse	1SNA167079R0100	2.13
FU103	10.3 x 38mm 500V 10A fuse	1SNA167080R2700	2.69
FU103	10.3 x 38mm 500V 25A fuse	1SNA167084R1700	1.28
FU853	8.5 x 31.5mm 6A fuse	1SNA163849R0600	1.04
FU633	6.35 x 32mm 4A quick blow fuse	1SNA168559R1000	1.40
FU633	6.35 x 32mm 6.3A quick blow fuse	1SNA168560R1500	2.77
CN	6.35 x 32mm neutral bar	1SNA173582R1500	4.23
BFAUTO	Automotive style fuse holder (black) for use with M4/6.SB terminals	1SNA299486R2400	0.37

6



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Terminal blocks

Distribution blocks



Distribution Bars

		Product Hierarchy 300002	
Type	Description	Order Code	Price
DBTI	7 way neutral bar DIN 3 mounting (Blue)	1SNA356100R1500	0.42
DBTI	7 way neutral bar DIN 3 mounting (Green)	1SNA356101R0200	0.25
DBTI	12 way neutral bar DIN 3 mounting (Blue)	1SNA356102R0300	4.52
DBTI	12 way neutral bar DIN 3 mounting (Green)	1SNA356103R0400	0.43



Distribution Terminals

MB4/6.L2	2 x 4mm² terminals commoned internally (Grey)	1SNA115406R1300	0.31
MB4/6.L3	3 x 4mm² terminals commoned internally (Grey)	1SNA115407R1400	5.39
MB4/6.L4	4 x 4mm² terminals commoned internally (Grey)	1SNA115408R2500	0.28
MB4/6.L5	5 x 4mm² terminals commoned internally (Grey)	1SNA115409R2600	1.41
MB4/6.L10	10 x 4mm² terminals commoned internally (Grey)	1SNA115412R0000	3.00



MB6/8.L5	5 x 6mm² terminals commoned internally (Grey)	1SNA115416R0400	0.51
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MB10/10.L2	2 x 10mm² terminals commoned internally (Grey)	1SNA115328R2300	0.28
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MB70/10.L4	1 x 70mm² stud + 4 x 10mm² terminals commoned internally (grey)	1SNA115336R1300	0.31
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MB70/10.L6	1 x 70mm² stud + 6 x 10mm² terminals commoned internally (grey)	1SNA115337R1400	0.42
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MB70/10.L8	1 x 70mm² stud + 8 x 10mm² terminals commoned internally (grey)	1SNA115338R2500	0.24
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BRU80A	80A distribution block (light grey)	1SNA356208R2500	1.00
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BRU125A	125A distribution block (light grey)	1SNA356204R1100	0.11
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BRU160A	160A distribution block (light grey)	1SNA356200R2100	3.91
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BRU175A	175A distribution block (light grey)	1SNA356212R0000	8.04
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BRU250A	250A distribution block (light grey)	1SNA179657R1500	5.63
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BRU400A	400A distribution block (light grey)	1SNA179650R2200	6.78
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BRTC125A	125A four pole distribution block (light grey)	1SNA356211R0700	6.12
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BRT80A	80A four pole distribution block (black)	1SNA179534R2200	3.90
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BRT125A	125A four pole distribution block (black)	1SNA179535R2300	3.90
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BRT160A	160A four pole distribution block (black)	1SNA179892R2200	8.55
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Accessories

		Product Hierarchy 300008	
Type	Description	Order Code	Price
B016/5	16 x 5mm busbar to electrically connect two BRU160A together	1SNA356201R1600	3.87

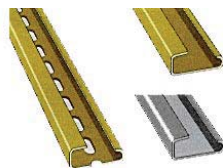
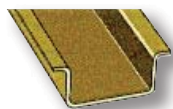


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Terminal blocks

General accessories



6

Din Rails

		Product Hierarchy 300002	
Type	Description	Order Code	Price
PR30	DIN 3 (TS35) zinc plated, top hat shallow slotted din rail - 2 metres	1SNA173220R0500	9.36
PR3	DIN 3 (TS35) zinc plated, top hat shallow solid din rail - 2 metres	1SNA174300R1700	0.47
PR3.G2	DIN 3 (TS35) galvanised steel, top hat shallow solid din rail - 2 metres	1SNA164800R0300	0.43
PR50	DIN 3 (TS35) zinc plated, top hat deep slotted din rail - 2 metres	1SNA178529R0400	2.51
PR5	DIN 3 (TS35) zinc plated, top hat deep solid din rail - 2 metres	1SNA168700R2200	0.03
PR4	DIN 3 (EN50022) zinc plated, top hat deep solid din rail - 2 metres	1SNA168500R1200	0.02
PR1.Z2	DIN 1 (TS32) zinc plated, "G" rail shallow solid din rail - 2 metres	1SNA163050R0400	5.72
PR1.A2	DIN 1 (TS32) aluminium, "G" rail shallow solid din rail - 3 metres	1SNA167120R2300	2.65
PR2	EN50045 zinc plated, 15mm symmetrical slotted rail - 2 metres	1SNA164600R1200	0.07
PRH2R	NFC93461 solid reinforced rail - 2 metres	1SNA163350R1500	0.02

EM45	45° rail offset bracket	1SNA008521R2600	3.21
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End Stops

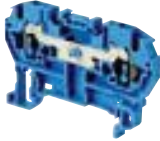
BADL	Screwless end stop for DIN 3 rail (light grey)	1SNA399903R0200	8.07
BAM2	Screwed end stop for DIN 3 rail (grey)	1SNA206351R1600	0.45
BAMH	Tall Screwed end stop for DIN 1 & 3 rail (grey)	1SNA114836R0000	0.45
BADH	Tall Screwed end stop for DIN 3 rail (grey)	1SNA116900R2700	0.45
BADRL	Screwless end stop for DIN 2 rail (light grey)	1SNA199420R2100	0.45
BAR	Screwless end stop for DIN 1 rail (beige)	1SNA164519R2400	0.45



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Terminal blocks

Spring clamp terminal blocks



1.5mm² Terminal Blocks 1in 1out

		Product Hierarchy 300002	
Type	Description	Order Code	Price
D1.5/4.2L	1.5mm feed through spring clamp terminal (Grey)	29037112	0.48
D1.5/4.P2L	1.5mm feed through spring clamp terminal (Earth) Green / Yellow	29037922	1.86

Accessories

		Product Hierarchy 300002 & 300008	
Type	Description	Order Code	Price
FED5.2L	End section for 1.5-4.0mm spring clamp terminals (Grey)	29106124	0.27
FED5.2L	End section for 1.5-4.0mm spring clamp terminals (Orange)	29106225	0.27
SCD5.2L	Seperator for 1.5-4.0mm spring clamp terminals (Orange)	29135204	0.20
SCD5.2L	Seperator for 1.5-4.0mm spring clamp terminals (Grey)	29135103	0.30



1.5mm² Terminal Blocks 2in 2out

		Product Hierarchy 300002 & 300005	
Type	Description	Order Code	Price
D1.5/4.4L	1.5mm feed through spring clamp terminal (Grey)	29038105	0.86
D1.5/4.4L	1.5mm feed through spring clamp terminal, (Blue)	29038307	0.89
D1.5/4.P4L	1.5mm feed through spring clamp terminal (Earth) Green / Yellow	29038915	3.30

Accessories

		Product Hierarchy 300008	
Type	Description	Order Code	Price
FED5.4L	End section for 1.5mm spring clamp terminals (Grey)	29104120	0.28

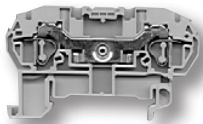
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Terminal blocks

Spring clamp terminal blocks



2.5mm² Terminal Blocks 1in 1out

		Product Hierarchy 300005	
Type	Description	Order Code	Price
D2.5/5.2L	2.5mm feed through spring terminal (Grey)	029002127	0.53
D2.5/5.N.2L	2.5mm feed through spring terminal, (Blue)	029002321	0.57
D2.5/5.P2L	2.5mm feed through spring terminal, Earth (Green/Yellow)	029002907	1.86

Accessories

		Product Hierarchy 300008 - 300002	
Type	Description	Order Code	Price
FED5.2L	End section for 1.5-4.0mm spring clamp terminals (Grey)	029106124	0.27
FED5.2L	End section for 1.5-4.0mm spring clamp terminals (Orange)	029106225	0.27
SCD5.2L	Seperator for 1.5-4.0mm spring clamp terminals (Orange)	029135204	0.20
SCD5.2L	Seperator for 1.5-4.0mm spring clamp terminals (Grey)	029135103	0.30
BJDL5.2	Jumper bar 2 Way (IP20)	029110223	0.32
BJDL5.3	Jumper bar 3 Way (IP20)	029110324	0.53
BJDL5.4	Jumper bar 4 Way (IP20)	029110425	0.96
BJDL5.5	Jumper bar 5 Way (IP20)	029110526	1.12
BJDL5.10	Jumper bar 10 Way (IP20)	029111026	1.93

6

2.5mm² Terminal Blocks 1in 2out

		Product Hierarchy 300005	
Type	Description	Order Code	Price
D2.5/5.3L	2.5mm feed through spring terminal (Grey)	029003121	0.66

Accessories

		Product Hierarchy 300008	
Type	Description	Order Code	Price
FED5.3L	End section for 2.5mm spring clamp terminals (Grey)	029106124	0.27
BJDL5.2	Jumper bar 2 Way (IP20)	029110223	0.32
BJDL5.3	Jumper bar 3 Way (IP20)	029110324	0.53
BJDL5.4	Jumper bar 4 Way (IP20)	029110425	0.96
BJDL5.5	Jumper bar 5 Way (IP20)	029110526	1.12
BJDL5.10	Jumper bar 10 Way (IP20)	029111026	1.93



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Terminal blocks

Spring clamp terminal blocks



2.5mm² Terminal Blocks 2in 2out

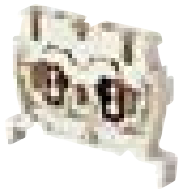
**Product Hierarchy
300005**

Type	Description	Order Code	Price
D2.5/5.4L	2.5mm feed through spring terminal (Grey)	029001125	0.78
D2.5/5.N.4L	2.5mm feed through spring terminal (Blue)	029001327	0.83
D2.5/5.P4L	2.5mm feed through spring terminal Earth (Green / Yellow + C30)	029001905	2.59
D2.5/5.2L.2L	2.5mm feed through spring terminal (Grey) (2 Independent circuits)	029000104	0.88

Accessories

**Product Hierarchy
300008**

Type	Description	Order Code	Price
FED5.4L	End section for 2.5mm spring clamp terminals (Grey)	029104120	0.28
BJDL5.2	Jumper bar 2 Way (IP20)	029110223	0.32
BJDL5.3	Jumper bar 3 Way (IP20)	029110324	0.53
BJDL5.4	Jumper bar 4 Way (IP20)	029110425	0.96
BJDL5.5	Jumper bar 5 Way (IP20)	029110526	1.12
BJDL5.10	Jumper bar 10 Way (IP20)	029111026	1.93



2.5mm² Terminal Blocks Double Deck

**Product Hierarchy
300005**

Type	Description	Order Code	Price
D2.5/5.D2.L	2.5mm feed through double deck spring terminal (Grey)	029016100	1.62

Accessories

**Product Hierarchy
300008**

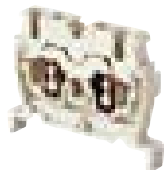
Type	Description	Order Code	Price
FEDL5.D.L	End section for 2.5mm double deck spring clamp terminals (Grey)	029144126	0.42
BJDL5.2	Jumper bar 2 Way (IP20)	029110223	0.32
BJDL5.3	Jumper bar 3 Way (IP20)	029110324	0.53
BJDL5.4	Jumper bar 4 Way (IP20)	029110425	0.96
BJDL5.5	Jumper bar 5 Way (IP20)	029110526	1.12
BJDL5.10	Jumper bar 10 Way (IP20)	029111026	1.93



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Terminal blocks

Spring clamp terminal blocks



2.5mm² Miniblock Terminals

		Product Hierarchy 300005	
Type	Description	Order Code	Price
DR2.5/5.2L	2.5mm feed through miniblock spring terminal (Grey)	029020111	0.52
DR2.5/5.2L	2.5mm feed through miniblock spring terminal (Orange)	029020212	0.52
DR2.5/10.P4L	2.5mm (4 spring) feed through miniblock terminal (Earth) Green / Yellow	029021912	1.52

Accessories

		Product Hierarchy 300008	
Type	Description	Order Code	Price
FED1.L	End section for 2.5mm miniblock terminal (Grey)	029130102	0.14
BJDL5.2	Jumper bar 2 Way (IP20)	029110223	0.32
BJDL5.3	Jumper bar 3 Way (IP20)	029110324	0.53
BJDL5.4	Jumper bar 4 Way (IP20)	029110425	0.96
BJDL5.5	Jumper bar 5 Way (IP20)	029110526	1.12
BJDL5.10	Jumper bar 10 Way (IP20)	029111026	1.93



2.5mm² Terminal Block for Sensor & Actuators

		Product Hierarchy 300005	
Type	Description	Order Code	Price
D2.5/5 C3.L	2.5mm ² Terminal block for sensors / actuators	029035021	2.13

Accessories

		Product Hierarchy 300008	
Type	Description	Order Code	Price
FED5.C3.L	End section for D2.5/5 C3.L	029035825	0.38
BJDL5.2	Jumper bar 2 Way (IP20)	029110223	0.32
BJDL5.3	Jumper bar 3 Way (IP20)	029110324	0.53
BJDL5.4	Jumper bar 4 Way (IP20)	029110425	0.96
BJDL5.5	Jumper bar 5 Way (IP20)	029110526	1.12
BJDL5.10	Jumper bar 10 Way (IP20)	029111026	1.93

6



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Terminal blocks

Spring clamp terminal blocks



2.5mm² Terminal Blocks 1in 1out

Product Hierarchy 300005

Type	Description	Order Code	Price
D2.5/5.2L	2.5mm feed through spring terminal (Grey)	029104120	0.28
D2.5/5.N.2L	2.5mm feed through spring terminal, (Blue)	029002321	0.57
D2.5/5.P2L	2.5mm feed through spring terminal, Earth (Green/Yellow)	029002907	1.86

Accessories

Product Hierarchy 300002 & 300008

Type	Description	Order Code	Price
FED5.2L	End section for 1.5-4.0mm spring clamp terminals (Grey)	029106124	0.27
FED5.2L	End section for 1.5-4.0mm spring clamp terminals (Orange)	029106225	0.27
SCD5.2L	Seperator for 1.5-4.0mm spring clamp terminals (Orange)	029135204	0.20
SCD5.2L	Seperator for 1.5-4.0mm spring clamp terminals (Grey)	029135103	0.30
BJDL5.2	Jumper bar 2 Way (IP20)	029110223	0.32
BJDL5.3	Jumper bar 3 Way (IP20)	029110324	0.53
BJDL5.4	Jumper bar 4 Way (IP20)	029110425	0.96
BJDL5.5	Jumper bar 5 Way (IP20)	029110526	1.12
BJDL5.10	Jumper bar 10 Way (IP20)	029111026	1.93

2.5mm² Terminal Blocks 1in 2out

Product Hierarchy 300005

Type	Description	Order Code	Price
D2.5/5.3L	2.5mm feed through spring terminal (Grey)	029003121	0.66

Accessories

Product Hierarchy 300008

Type	Description	Order Code	Price
FED5.3L	End section for 2.5mm spring clamp terminals (Grey)	029106124	0.27
BJDL5.2	Jumper bar 2 Way (IP20)	029110223	0.32
BJDL5.3	Jumper bar 3 Way (IP20)	029110324	0.53
BJDL5.4	Jumper bar 4 Way (IP20)	029110425	0.96

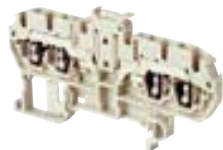


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Terminal blocks

Spring clamp terminal blocks



4.0mm² Terminal Blocks 2in 2out

		Product Hierarchy 300005	
Type	Description	Order Code	Price
D4/6.4L	4.0mm feed through spring clamp terminal (Grey)	029041006	0.80
D4/6.4L	4.0mm feed through spring clamp terminal, (Blue)	029041224	0.84

Accessories

		Product Hierarchy 300008	
Type	Description	Order Code	Price
FED6.4L	End section for 1.5-4.0mm spring clamp terminals (Grey)	029169626	0.32
BJDL6.2	Jumper bar 2 Way (IP20)	029112824	0.58
BJDL6.3	Jumper bar 3 Way (IP20)	029112925	0.83



6.0mm² Terminal Blocks 1in 1out

		Product Hierarchy 300005	
Type	Description	Order Code	Price
D6/8.2L	6.0mm feed through spring clamp terminal (Grey)	029008124	0.74
D6/8.N.2L	6.0mm feed through spring clamp terminal, (Blue)	029008326	0.78
D6/8.P.2L	6.0mm feed through spring clamp terminal (Earth) Green / Yellow	029008904	2.28

Accessories

		Product Hierarchy 300008	
Type	Description	Order Code	Price
FED8.2L	End section for 6.0mm spring clamp terminals (Grey)	029116125	0.28
BJDL8.2	Jumper bar 2 Way (IP20)	029112216	0.72



10mm² Terminal Blocks 1in 1out

		Product Hierarchy 300005	
Type	Description	Order Code	Price
D10/10.2L	10.0mm feed through spring clamp terminal (Grey)	029029103	0.96
D10/10.N.2L	10.0mm feed through spring clamp terminal, (Blue)	029029305	0.99
D10/10.P.2L	10.0mm feed through spring clamp terminal (Earth) Green / Yellow	029029913	2.65

Accessories

		Product Hierarchy 300008	
Type	Description	Order Code	Price
FED10.2L	End section for 10.0mm spring clamp terminals (Grey)	029029913	2.65
BJDL10.2	Jumper bar 2 Way (IP20)	029147225	1.18

6



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Terminal blocks

Spring clamp terminal blocks



16mm² Terminal Blocks 1in 1out

Product Hierarchy 300005

Type	Description	Order Code	Price
D16/12.2L	16.0mm feed through spring clamp terminal (Grey)	039958127	1.47
D16/12.N.2L	16.0mm feed through spring clamp terminal, (Blue)	039958220	1.52
D16/12.P2L	16.0mm feed through spring clamp terminal (Earth) Green / Yellow	039958422	3.88

Accessories

Product Hierarchy 300008

Type	Description	Order Code	Price
FED12.2L	End section for 16.0mm spring clamp terminals (Grey)	039957104	0.47

35mm² Terminal Blocks 1in 1out

Product Hierarchy 300005

Type	Description	Order Code	Price
D35/16.2L	35.0mm feed through spring clamp terminal (Grey)	039961702	2.88
D35/16.N.2L	35.0mm feed through spring clamp terminal, (Blue)	039961813	3.01
D35/16.P2L	35.0mm feed through spring clamp terminal (Earth) Green / Yellow	039962011	5.91

2.5mm² Disconnect (switch) Terminal Blocks 1in 1out

Product Hierarchy 300005

Type	Description	Order Code	Price
D2.5/5.SNBT.2L	2.5mm ² disconnect terminal (Grey body, short orange blade)	029004103	1.62

Accessories

Product Hierarchy 300008

Type	Description	Order Code	Price
FED5.2L	End section for 1.5-4.0mm spring clamp terminals (Grey)	029106124	0.27
FED5.2L	End section for 1.5-4.0mm spring clamp terminals (Orange)	029106225	0.27
SCD5.2L	Seperator for 1.5-4.0mm spring clamp terminals (Orange)	029135204	0.20
BJDL5.2	Jumper bar 2 Way (IP20)	029110223	0.32
BJDL5.3	Jumper bar 3 Way (IP20)	029110324	0.53
BJDL5.4	Jumper bar 4 Way (IP20)	029110425	0.96
BJDL5.5	Jumper bar 5 Way (IP20)	029110526	1.12
BJDL5.10	Jumper bar 10 Way (IP20)	029111026	1.93

6



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Terminal blocks

Spring clamp terminal blocks

2.5mm ² Disconnect (switch) Terminal Blocks 2in 2out		Product Hierarchy 300005	
Type	Description	Order Code	Price
D2.5/5.SNBT.4L	2.5mm ² disconnect terminal (Grey body, short grey blade)	029013324	2.35

Accessories		Product Hierarchy 300008	
Type	Description	Order Code	Price
FED5.4L	End section for 2.5mm spring clamp terminals (Grey)	029104120	0.28
BJDL5.2	Jumper bar 2 Way (IP20)	029110223	0.32
BJDL5.3	Jumper bar 3 Way (IP20)	029110324	0.53
BJDL5.4	Jumper bar 4 Way (IP20)	029110425	0.96
BJDL5.5	Jumper bar 5 Way (IP20)	029110526	1.12
BJDL5.10	Jumper bar 10 Way (IP20)	029111026	1.93

2.5mm Fuse terminals		Product Hierarchy 300005	
Type	Description	Order Code	Price
D2.5/8.SFT.2L	Fuse terminal (flip top) for 5x20, 5x25mm fuse (Grey)	029009126	2.34
D2.5/8.SFDT.2L	Fuse terminal (flip top) for 5x20, 5x25mm fuse (Grey) with test socket & fuse blown indicator (24v)	029009421	7.06

Accessories		Product Hierarchy 300008	
Type	Description	Order Code	Price
FED8SF.2L	End section for 2.5mm spring clamp terminals (Grey)	029113117	0.30
BJDL8.2	Jumper bar 2 Way (IP20)	029112216	0.72

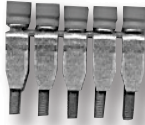
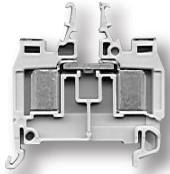
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Terminal blocks

ADO terminals



1mm² ADO Feed Through Terminal Blocks

Product Hierarchy 300006

Type	Description	Order Code	Price
D1/5.ADO	1mm² feed through terminal, ADO-ADO (Grey)	1SNA199563R2400	0.51
D1/5.PADO	1mm² feed through terminal, Ground, ADO-ADO (Green / Yellow)	1SNA399031R2200	0.71
D1/5.ADO	1mm² feed through terminal, ADO-ADO (Orange)	1SNA199564R2500	0.83

Accessories

Product Hierarchy 300008

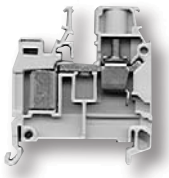
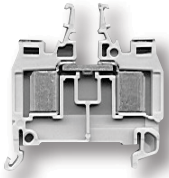
Type	Description	Order Code	Price
D2,5/5.ADO	1mm² ADO - 2.5mm² screw clamp feed through terminal (Grey)	1SNA199554R2300	2.05
FEMAD3	End section (Grey)	1SNA199341R0500	1.37
FEMAD3	End section (Yellow)	1SNA199343R0700	2.31
FC2	Test Plug 2mm diameter	1SNA007865R2600	1.22
BJMI5	Jumper bar - 2 pole (IP20)	1SNA176278R1600	1.13
BJMI5	Jumper bar - 3 pole (IP20)	1SNA176279R1700	1.25
BJMI5	Jumper bar - 4 pole (IP20)	1SNA176280R0500	1.47
BJMI5	Jumper bar - 5 pole (IP20)	1SNA176281R2200	1.87
BJMI5	Jumper bar - 10 pole (IP20)	1SNA176282R2300	3.13
EL6	Connector Plate to link two jumper bars together	1SNA173627R2100	0.24
CBM5	Screen Bar 0.5mm thickness	1SNA178745R1400	0.37
CBM8	Screen Bar 0.8mm thickness	1SNA178746R1500	0.47



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Terminal blocks

ADO terminals



1.5mm² ADO Feed Through Terminal Blocks

		Product Hierarchy 300006	
Type	Description	Order Code	Price
D1,5/6.ADO	1.5mm² ADO feed through terminal (Grey)	1SNA199051R2600	2.98
D1,5/6.N.ADO	1.5mm² ADO feed through terminal (Blue)	1SNA199053R2000	3.24
D1,5/6.P.ADO	1.5mm² ADO feed through terminal, Ground (Green / Yellow)	1SNA199098R2600	5.79
D1,5/6.ADO	1.5mm² ADO feed through terminal (Red)	1SNA199081R1500	5.71
D4/6.ADO	1.5mm² ADO - 4mm² screw clamp feed through terminal (Grey)	1SNA199034R1500	6.32
D4/6.N.ADO	1.5mm² ADO - 4mm² screw clamp feed through terminal (Blue)	1SNA199036R1700	4.16
D4/6.P.ADO	1.5mm² ADO - 4mm² screw clamp feed through terminal, Ground (Green / Yellow)	1SNA199050R0100	4.16
D4/6.ADO	1.5mm² ADO - 4mm² screw clamp feed through terminal (Orange)	1SNA199035R1600	2.08
D4/6.ADO	1.5mm² ADO - 4mm² screw clamp feed through terminal (Red)	1SNA199069R0000	0.68

Accessories

		Product Hierarchy 300008	
Type	Description	Order Code	Price
FEMAD3	End section for 1-4mm ADO-ADO terminals (Grey)	1SNA199341R0500	1.37
FEMAD3	End section for 1-4mm ADO-ADO terminals (Yellow)	1SNA199343R0700	2.31
FEDAD1	End section for 1-4mm ADO - 2.5 - 4mm screw clamp terminals (Grey)	1SNA199336R2000	0.40
FEDAD1	End section for 1-4mm ADO - 2.5 - 4mm screw clamp terminals (Yellow)	1SNA199339R0300	2.66
FC2	Test Plug 2mm diameter	1SNA007865R2600	1.22
BJMI6	Jumper bar - 2 pole (IP20)	1SNA176663R0000	3.50
BJMI6	Jumper bar - 3 pole (IP20)	1SNA176664R0100	3.50
BJMI6	Jumper bar - 4 pole (IP20)	1SNA176665R0200	3.50
BJMI6	Jumper bar - 5 pole (IP20)	1SNA176666R0300	3.50
BJMI6	Jumper bar - 10 pole (IP20)	1SNA176667R0400	3.50
EL6	Connector plate for linking two jumper bars together	1SNA173627R2100	0.24
CBM5	Screen Bar 0.5mm thickness	1SNA178745R1400	0.37
CBM8	Screen Bar 0.8mm thickness	1SNA178746R1500	0.47



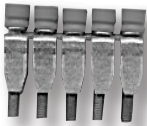
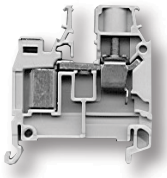
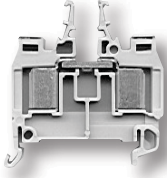
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Terminal blocks

ADO terminals



2.5mm² ADO Feed Through Terminal Blocks

		Product Hierarchy 300006	
Type	Description	Order Code	Price
D2,5/8.ADO	2.5mm² ADO feed through terminal (Grey)	1SNA199059R0600	3.75
D2,5/8.ADO	2.5mm² ADO feed through terminal (Blue)	1SNA199061R2000	5.35
D2,5/8.PADO	2.5mm² ADO feed through terminal, Ground (Green / Yellow)	1SNA199091R1700	2.97
D2,5/8.ADO	2.5mm² ADO feed through terminal (Black)	1SNA199089R2500	6.75
D6/8.ADO	2.5mm² ADO - 6mm² screw clamp feed through terminal (Grey)	1SNA199042R2500	3.69
D6/8.PADO	2.5mm² ADO - 6mm² screw clamp feed through terminal, Ground (Green / Yellow)	1SNA199118R2600	4.98
D6/8.ADO	2.5mm² ADO - 6mm² screw clamp feed through terminal (Orange)	1SNA199043R2600	0.72
D6/8.ADO	2.5mm² ADO - 6mm² screw clamp feed through terminal (Black)	1SNA199077R2000	0.62
D6/8.1.ADO	2.5mm² ADO - 6mm² screw clamp feed through terminal with partition (Grey)	1SNA199046R2100	2.34

Accessories

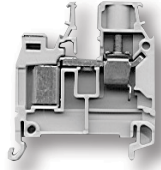
		Product Hierarchy 300008	
Type	Description	Order Code	Price
FEMAD3	End section for 1-4mm ADO-ADO terminals (Grey)	1SNA199341R0500	1.37
FEMAD3	End section for 1-4mm ADO-ADO terminals (Yellow)	1SNA199343R0700	2.31
FEDAD1	End section for 1-4mm ADO - 2.5 - 6mm screw clamp terminals (Grey)	1SNA199336R2000	0.40
FEDAD1	End section for 1-4mm ADO - 2.5 - 6mm screw clamp terminals (Yellow)	1SNA199339R0300	2.66
BJM18	Jumper bar - 2 pole (IP20)	1SNA176669R1600	2.02
BJM18	Jumper bar - 3 pole (IP20)	1SNA176670R1300	0.78
BJM18	Jumper bar - 4 pole (IP20)	1SNA176671R0000	0.90
BJM18	Jumper bar - 5 pole (IP20)	1SNA176672R0100	2.60
BJM18	Jumper bar - 10 pole (IP20)	1SNA176673R0200	0.78
EL6	Connector plate for linking two jumper bars together	1SNA173627R2100	0.24



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Terminal blocks

ADO terminals



4mm² ADO Feed Through Terminal Blocks

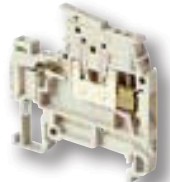
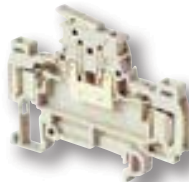
		Product Hierarchy 300006	
Type	Description	Order Code	Price
D4/8.ADO	4mm² ADO feed through terminal (Grey)	1SNA399244R1400	0.62
D4/8.ADO	4mm² ADO feed through terminal (Blue)	1SNA399318R1600	0.62
D6/8.ADO3	4mm² ADO - 6mm² screw clamp feed through terminal (Grey)	1SNA399245R1500	0.31

Accessories

		Product Hierarchy 300008	
Type	Description	Order Code	Price
FEMAD3	End section for 1-4mm ADO-ADO terminals (Grey)	1SNA199341R0500	1.37
FEMAD3	End section for 1-4mm ADO-ADO terminals (Yellow)	1SNA199343R0700	2.31
BJMI8	Jumper bar - 2 pole (IP20)	1SNA176669R1600	2.02
BJMI8	Jumper bar - 3 pole (IP20)	1SNA176670R1300	0.78
BJMI8	Jumper bar - 4 pole (IP20)	1SNA176671R0000	0.90
BJMI8	Jumper bar - 5 pole (IP20)	1SNA176672R0100	2.60
BJMI8	Jumper bar - 10 pole (IP20)	1SNA176673R0200	0.78
EL6	Connector plate for linking two jumper bars together	1SNA173627R2100	0.24



6



ADO Disconnect Terminal Blocks

		Product Hierarchy 300006	
Type	Description	Order Code	Price
D1,5/6.SNT2.ADO	1.5mm² ADO - ADO blade disconnect terminal with 2mm test sockets (Grey)	1SNA199144R2000	0.31
D2,5/8.SNT2.ADO	2.5mm² ADO - ADO blade disconnect terminal with 2mm test sockets (Grey)	1SNA199231R2700	0.31
D4/6.SN.ADO	1.5mm² ADO - 4mm² screw clamp blade disconnect terminal (Grey)	1SNA199231R2700	0.31
D4/8.SN.ADO	2.5mm² ADO - 4mm² screw clamp blade disconnect terminal (Grey)	1SNA199137R1100	0.62

Accessories

		Product Hierarchy 300008	
Type	Description	Order Code	Price
FEDAD5	End section for 1.5-2.5mm ADO-ADO blade disconnect terminals (Grey)	1SNA199354R0200	0.64
FEDAD4	End section for 1.5-2.5mm ADO- 2.5mm² screw clamp blade disconnect terminals (Grey)	1SNA199352R0000	2.34
BJADO6.4	Push in jumper bar, 4 pole for 6mm pitch ADO blade disconnect terminals (Orange)	1SNA205976R0000	0.62
BJADO6.20	Push in jumper bar, 20 pole for 6mm pitch ADO terminals (Orange)	1SNA205992R2100	0.62



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Terminal blocks

ADO terminals



ADO Fuse Terminal Blocks

Product Hierarchy 300006

Type	Description	Order Code	Price
D1,5/8.SFT.ADO	1.5mm ² ADO - ADO 5 x 20 / 5 x 25mm flip top fuse terminal (Grey)	1SNA199208R1100	0.64
D2,5/8.SFT.ADO2	2.5mm ² ADO - ADO 5 x 20 / 5 x 25mm flip top fuse terminal (Grey)	1SNA199184R1100	2.26
D4/8.SF.I.ADO	1.5mm ² ADO - 4mm ² screw clamp 5 x 20 / 5 x 25mm flip top fuse terminal (Grey)	1SNA399785R0300	0.62

Accessories

Product Hierarchy 300008

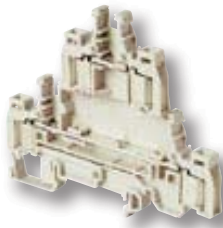
Type	Description	Order Code	Price
FEDAD7	End section for ADO - ADO fuse terminals (Grey)	1SNA199382R2700	0.62
FEDAD10	End section for ADO - screw clamp fuse terminals (Grey)	1SNA399758R2700	0.31
TGA8	Assembly rod, 2 pole, to link flip top fuse carriers M4/8.SF M4/8.SN series.	1SNA168672R1100	2.35
ANT	Assembly ring locks TGA8 in place on flip top fuse carriers M4/8.SF M4/8.SN series.	1SNA168675R1400	0.31
FU520	5 x 20mm 250V 0.5A fuse	1SNA008288R1500	1.53
FU520	5 x 20mm 250V 1A fuse	1SNA008290R1300	1.80
FU520	5 x 20mm 250V 2A fuse	1SNA008291R0000	1.01
FU520	5 x 20mm 250V 3.15A fuse	1SNA008289R1600	1.68
FU520	5 x 20mm 250V 5A fuse	1SNA008292R0100	2.04
FU525	5 x 25mm 250V 2.5A fuse	1SNA167548R0400	1.08
FU525	5 x 25mm 250V 4A fuse	1SNA167549R0500	1.84
CN5	5 x 25mm neutral bar	1SNA179371R1600	2.26



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Terminal blocks

ADO terminals



ADO Double Deck Terminal Blocks

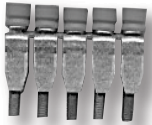
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Order Code	Price
1SNA199242R0200	0.27

Type	Description
D4/6.D2.ADO	1.5mm ² ADO - 4mm ² screw clamp double deck terminal (Grey)

Accessories

Product Hierarchy 300008	
Order Code	Price
1SNA199242R0200	0.27

Type	Description
FED2AD1	End section for ADO - Screw clamp double deck terminals (Grey)



BJMI6	Jumper bar - 2 pole (IP20)	1SNA176663R0000	3.50
BJMI6	Jumper bar - 3 pole (IP20)	1SNA176664R0100	3.50
BJMI6	Jumper bar - 4 pole (IP20)	1SNA176665R0200	3.50
BJMI6	Jumper bar - 5 pole (IP20)	1SNA176666R0300	3.50
BJMI6	Jumper bar - 10 pole (IP20)	1SNA176667R0400	3.50
EL6	Connector plate for linking two jumper bars together	1SNA173627R2100	0.24



BJADO6.4	Push in jumper bar, 4 pole for 6mm pitch ADO double deck terminals (Orange)	1SNA205976R0000	0.62
BJADO6.20	Push in jumper bar, 20 pole for 6mm pitch ADO double deck terminals (Orange)	1SNA205992R2100	0.62

PC6	Comb jumper bar - 2 pole for ADO double deck terminal	1SNA113546R1400	3.50
PC6	Comb jumper bar - 10 pole for ADO double deck terminal	1SNA113548R2600	1.07

6



General ADO Accessories - Tools

Product Hierarchy 300006	
Order Code	Price
1SNA178944R0400	0.27
1SNA179466R0600	0.62
1SNA205284R0300	0.64

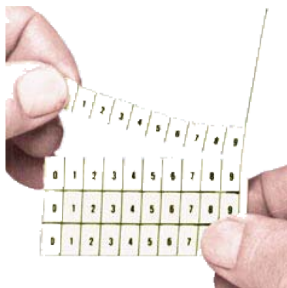
Type	Description
OUPAD	Semi automatic ADO hand tool
OUMAD	ADO hand tool
OUTA	Replacement head for OUPAD semi automatic hand tool



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Terminal blocks

Marker cards



RC410 Marker Cards

		Product Hierarchy 300008	
Type	Description	Order Code	Price
RC410	RC410 Marker Card - BLANK	1SNA229000R1500	3.90

RC55 Marker Cards

RC55	RC55 Marker Card - Blank	1SNA230000R1200	0.40
RC55	RC55 Marker Card - Horizontal 10 x [0-9]	1SNA230001R0700	0.33
RC55	RC55 Marker Card - Horizontal 10 x [1-10]	1SNA230002R0000	2.04
RC55	RC55 Marker Card - Horizontal 10 x [1-100]	1SNA230030R0700	1.89

RC510 Marker Cards

RC510	RC510 Marker Card - BLANK	1SNA231000R0700	1.89
RC510	RC510 Marker Card - Horizontal 10 x [1-10]	1SNA231002R2500	1.45
RC510	RC510 Marker Card - Horizontal 10 x [11-20]	1SNA231003R2600	0.43
RC510	RC510 Marker Card - Horizontal 10 x [21-30]	1SNA231004R2700	0.43
RC510	RC510 Marker Card - Horizontal 10 x [31-40]	1SNA231005R2000	2.42
RC510	RC510 Marker Card - Horizontal 10 x [41-50]	1SNA231006R2100	0.69
RC510	RC510 Marker Card - Horizontal 10 x [51-60]	1SNA231007R2200	3.21
RC510	RC510 Marker Card - Horizontal 10 x [61-70]	1SNA231008R0300	3.36
RC510	RC510 Marker Card - Horizontal 10 x [71-80]	1SNA231009R0400	4.52
RC510	RC510 Marker Card - Horizontal 10 x [81-90]	1SNA231010R2000	4.52
RC510	RC510 Marker Card - Horizontal 10 x [91-100]	1SNA231011R1500	1.86
RC510	RC510 Marker Card - Horizontal [1-100]	1SNA231030R2400	2.65
RC510	RC510 Marker Card - Horizontal [101-200]	1SNA231031R1100	3.39
RC510	RC510 Marker Card - Horizontal [301-400]	1SNA231033R1300	4.26
RC510	RC510 Marker Card - Horizontal [401-500]	1SNA231034R1400	8.26
RC510	RC510 Marker Card - Vertical 10 x [1-10]	1SNA231041R2300	6.07
RC510	RC510 Marker Card - Vertical 10 x [11-20]	1SNA231042R2400	2.96
RC510	RC510 Marker Card - Vertical 10 x [21-30]	1SNA231043R2500	21.34
RC510	RC510 Marker Card - Vertical [1-100]	1SNA231060R0200	24.88
RC510	RC510 Marker Card - Red Text [1-100]	1SNA231074R2400	28.44
RC510	RC510 Marker Card - Horizontal 100 x	1SNA231115R1200	9.42

RC65 Marker Cards

RC65	RC65 Marker Card - BLANK	1SNA232000R0000	11.72
RC65	RC65 Marker Card - Horizontal 10 x [1-10]	1SNA232002R2600	23.25
RC65	RC65 Marker Card - Horizontal 10 x [11-20]	1SNA232003R2700	23.54
RC65	RC65 Marker Card - Horizontal 10 x [21-30]	1SNA232004R2000	43.66
RC65	RC65 Marker Card - Horizontal [1-100]	1SNA232030R2500	46.08
RC65	RC65 Marker Card - Horizontal [101-200]	1SNA232031R1200	28.12

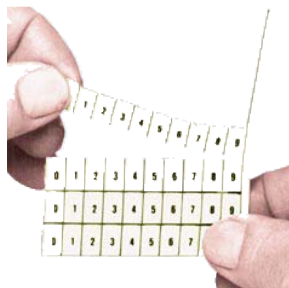


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Terminal blocks

Marker cards



RC610 Marker Cards

		Product Hierarchy 300008	
Type	Description	Order Code	Price
RC610	RC610 Marker Card - BLANK	1SNA233000R0100	23.87
RC610	RC610 Marker Card - Horizontal 10 x [1-10]	1SNA233002R2700	31.11
RC610	RC610 Marker Card - Horizontal 10 x [11-20]	1SNA233003R2000	61.42
RC610	RC610 Marker Card - Horizontal 10 x [21-30]	1SNA233004R2100	4.80
RC610	RC610 Marker Card - Horizontal 10 x [31-40]	1SNA233005R2200	3.72
RC610	RC610 Marker Card - Horizontal 10 x [41-50]	1SNA233006R2300	3.52
RC610	RC610 Marker Card - Horizontal 10 x [51-60]	1SNA233007R2400	2.50
RC610	RC610 Marker Card - Horizontal 10 x [61-70]	1SNA233008R0500	5.47
RC610	RC610 Marker Card - Horizontal 10 x [71-80]	1SNA233009R0600	8.47
RC610	RC610 Marker Card - Horizontal 10 x [81-90]	1SNA233010R2200	12.23
RC610	RC610 Marker Card - Horizontal 10 x [91-100]	1SNA233011R1700	4.43
RC610	RC610 Marker Card - Horizontal 10 x [101-110]	1SNA233012R1000	19.34
RC610	RC610 Marker Card - Horizontal 10 x [111-120]	1SNA233013R1100	3.76
RC610	RC610 Marker Card - Horizontal 10 x [121-130]	1SNA233014R1200	19.79
RC610	RC610 Marker Card - Horizontal 10 x [131-140]	1SNA233015R1300	0.90
RC610	RC610 Marker Card - Horizontal 10 x [141-150]	1SNA233016R1400	0.45
RC610	RC610 Marker Card - Horizontal 10 x [151-160]	1SNA233017R1500	0.45
RC610	RC610 Marker Card - Horizontal 10 x [161-170]	1SNA233018R2600	1.03
RC610	RC610 Marker Card - Horizontal [1-100]	1SNA233030R2600	1.78
RC610	RC610 Marker Card - Horizontal [101-200]	1SNA233031R1300	0.48
RC610	RC610 Marker Card - Horizontal [201-300]	1SNA233032R1400	0.63
RC610	RC610 Marker Card - Horizontal [301-400]	1SNA233033R1500	0.53
RC610	RC610 Marker Card - Horizontal [401-500]	1SNA233034R1600	0.57
RC610	RC610 Marker Card - Horizontal [501-600]	1SNA233035R1700	1.86
RC610	RC610 Marker Card - Vertical 10 x [1-10]	1SNA233041R2500	0.27
RC610	RC610 Marker Card - Vertical 10 x [11-20]	1SNA233042R2600	0.27
RC610	RC610 Marker Card - Vertical 10 x [21-30]	1SNA233043R2700	0.20
RC610	RC610 Marker Card - Vertical 10 x [41-50]	1SNA233045R2100	0.30
RC610	RC610 Marker Card - Vertical 10 x [61-70]	1SNA233047R2300	0.32
RC610	RC610 Marker Card - Vertical [1-100]	1SNA233060R0400	0.53
RC610	RC610 Marker Card - Vertical [101-200]	1SNA233061R2100	0.96
RC610	RC610 Marker Card - Vertical [201-300,]	1SNA233062R2200	1.12
RC610	RC610 Marker Card - Horizontal 20 x [L1 L2 L3 N PE]	1SNA233131R1400	1.93
RC610	RC610 Marker Card - Horizontal 2 x [1-50]	1SNA233141R2600	0.66

6

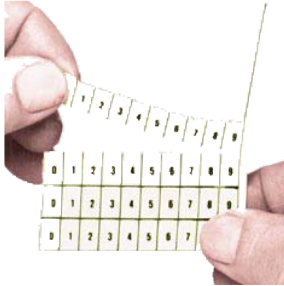


Full range of product and technical information place this part number in a search engine and download

1SNC160001C0207

Terminal blocks

Marker cards



RC610 Marker Cards

		Product Hierarchy 300008	
Type	Description	Order Code	Price
RC810	RC810 Marker Card - BLANK	1SNA234000R0200	0.27
RC810	RC810 Marker Card - Horizontal 10 x [1-10]	1SNA234002R2000	0.32
RC810	RC810 Marker Card - Horizontal 10 x [11-20]	1SNA234003R2100	0.53
RC810	RC810 Marker Card - Horizontal 10 x [21-30]	1SNA234004R2200	0.96
RC810	RC810 Marker Card - Horizontal 10 x [31-40]	1SNA234005R2300	2.88
RC810	RC810 Marker Card - Horizontal 10 x [41-50]	1SNA234006R2400	3.01
RC810	RC810 Marker Card - Horizontal [1-100]	1SNA234030R2700	5.91
RC810	RC810 Marker Card - Vertical 10 x [1-10]	1SNA234041R2600	1.67
RC810	RC810 Marker Card - Vertical 10 x [11-20]	1SNA234042R2700	1.67
RC810	RC810 Marker Card - Vertical [1-100]	1SNA234060R0500	3.50

Marker Cards - General

---	Permenant Marker Pen	1SNA164386R2700	3.50
REH3	Marker Card Red Text 22 x [1-30] & 1 x [1-20]	1SNA164695R2500	3.50
RTM7	0.5m Strip of blank markers for Top of 6mm pitch terminals	1SNA168410R0700	1.67
RCPEB	Sheet of 54 Markers	1SNA178430R0500	3.50
EPR1	Sheet of 54 Clear Covers for RCPEB Markers	1SNA178431R2200	3.50
RCCV	RCCV Card of 48 blank wire markers	1SNA235460R0400	3.50
PETC53	Clear Holder For RCCV Markers	1SNA168741R1600	3.50
RCT610	RCT 610 Top Marker Card - BLANK	1SNA236000R0400	3.50
RCT810	RCT 810 Top Marker Card - BLANK	1SNA236500R0600	3.50
RC1010	RC1010 Marker Card - BLANK	1SNA238000R1600	3.50

AMS500 Plotter Accessories

AMS PEN 0,25	0.25mm Pen for AMS500 Plotter	1SNA360100R2500	3.50
AMS PEN 0,35	0.35mm Pen for AMS500 Plotter	1SNA360101R1200	3.50
---	0.35mm Disposable Pen for AMS500 Plotter	1SNA360121R0500	3.50
AMS INK	Pack of 5 ink cartridges for AMS500 Plotter	1SNA360150R2600	3.50
AMS CLEANER	Pen Cleaner for AMS500 pens	1SNA360155R1700	3.50



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Jokab Safety



Jokab Safety

Overview	7/2
Pluto safety PLCs.....	7/4
Vital safety controllers.....	7/7
Tina adaptor units	7/9
Safety relays.....	7/11
Safety light grids, curtains and scanners.....	7/18
Stop time measurement & machine diagnosis	7/30
Sensors & switches	7/32
Control devices	7/41
Emergency stop devices	7/48
Contact rails and bumpers.....	7/52
Safety mats	7/54
Fencing systems	7/56



Jokab Safety

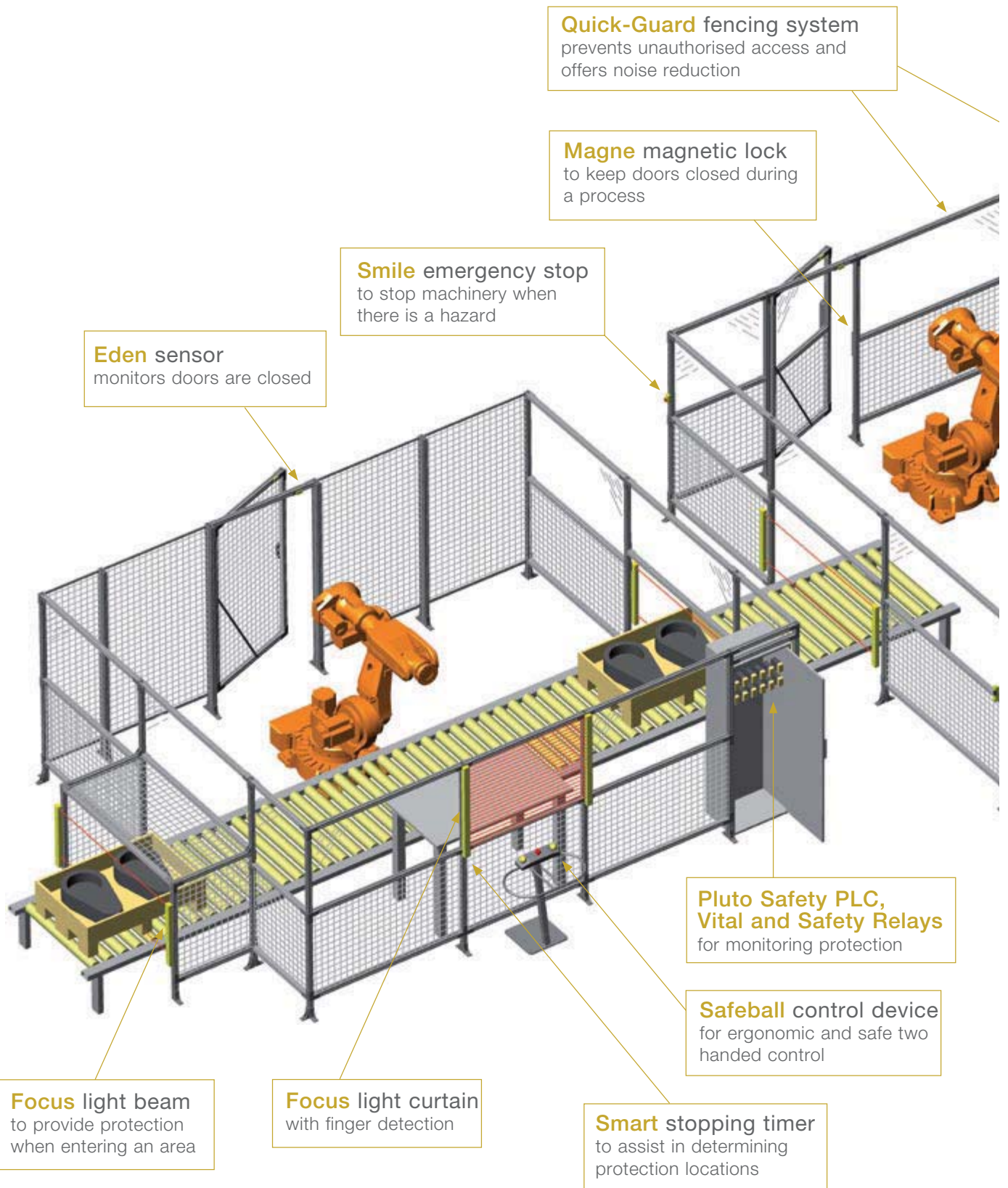


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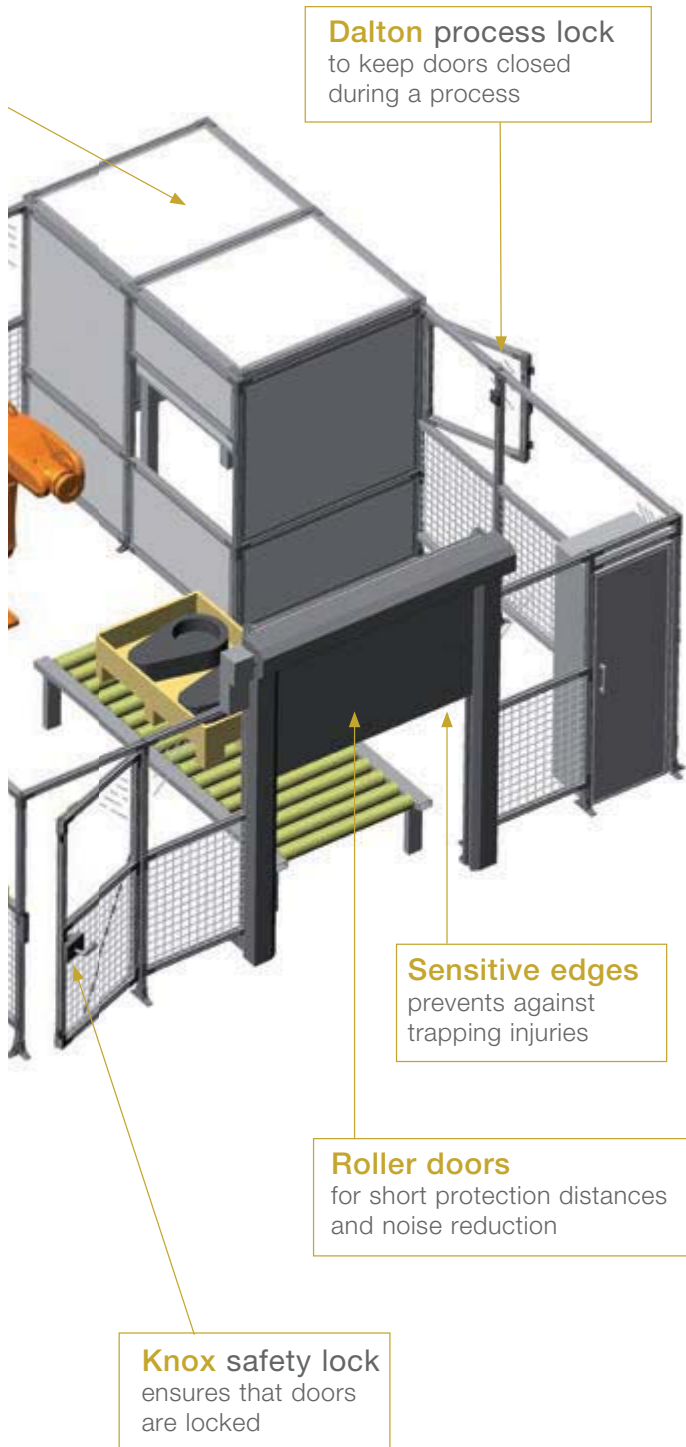
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Jokab Safety

Production-friendly safety systems



7

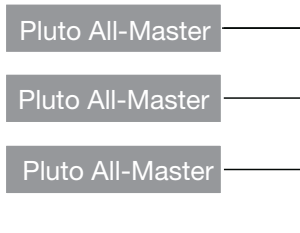


Product Groups	
	Training & Advice Practical application of standards and regulations, along with CE-labelling.
	Pluto Safety PLC A unique All-Master safety PLC for dynamic and static safety circuits.
	Vital Safety System Dynamic safety circuit for several sensors in accordance with the highest safety category.
	Tina Adapter Units Transformation of static signals to dynamic safety signals, etc.
	Safety Relays The market's most flexible safety relays for different protection purposes and categories.
	Stopping Time & Machinery Diagnosis Used for stopping time measurement, annual maintenance and for trouble shooting machinery.
	Light Curtain/Light Beam/Scanner Complete range of light beams, light curtains and scanners.
	Sensors/Switches/Locks Dynamic non-contact sensors, key switches and solenoid switches.
	Control Devices Ergonomic three-position control units, two-handed control units and foot pedals.
	Emergency Stop Devices Emergency stop devices for dynamic and static safety circuits.
	Contact Strips/Bumpers/Safety Mats Sensitive edges, bumpers and safety mats.
	Fencing Systems/SafeCAD/Roller Doors A stable and flexible fencing system that is easy to install.

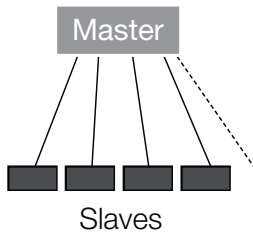
Pluto safety PLC's

for simplifying design and changes to safety systems

Our solution with All-Master

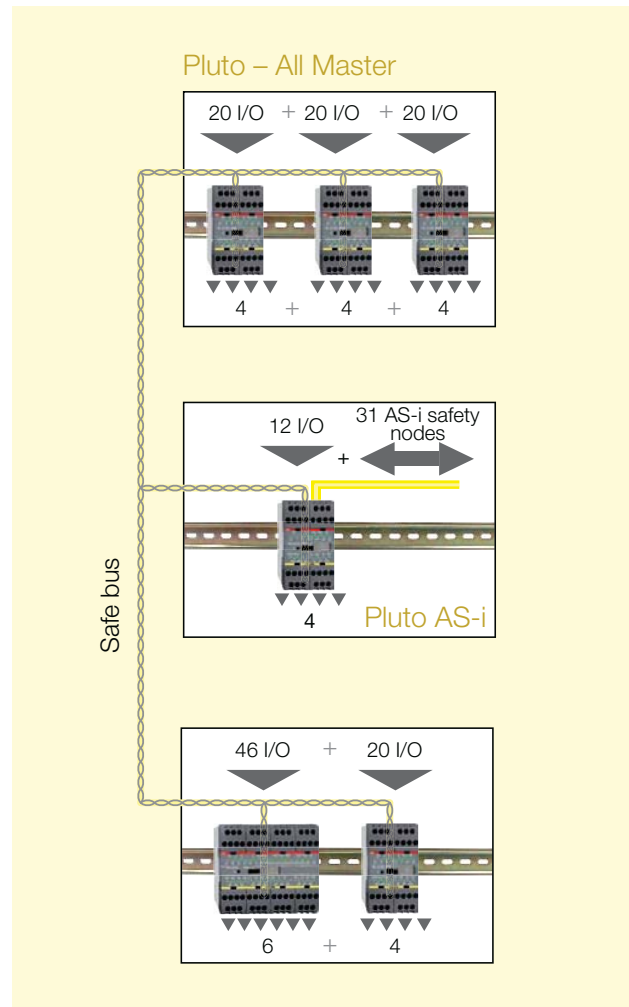


Traditional safety PLC



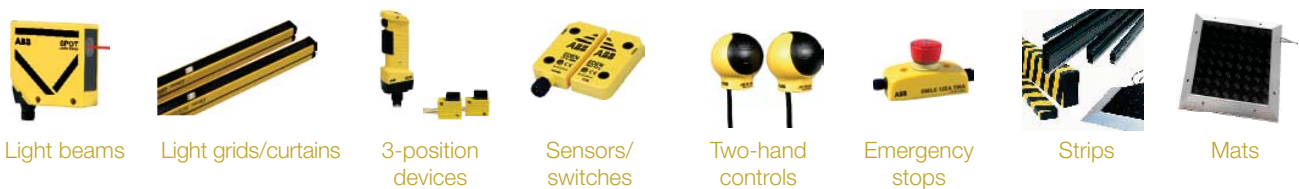
7

Pluto is an "All-Master" safety PLC concept, that simplifies the design of safety systems and achieves the highest safety level PL e according to EN ISO 13849-1 and SIL 3 according to EN 62061 and EN 61508. The key difference between Pluto and conventional safety PLC's is that there is no "Master-Slave" relationship between the control units connected to the safety bus. Each Pluto is a 'Master' unit and can see the other Plutos' inputs and outputs, and can thereby make decisions about its own safety environment.



This concept enables simple communication, programming and changes to the safety system. With the use of a 'Gateway' device, a Pluto can communicate with other bus systems and thereby form part of a larger network. Gateway units are available for several different bus systems, such as Profibus, CanOpen, DeviceNet, Profinet, Ethernet/IP and Modbus TCP. With a Pluto AS-i, both safety slaves and standard slaves can be handled. Pluto offers an economic solution for both single machines and for major machine systems.

Pluto safety PLC's to supervise safety devices



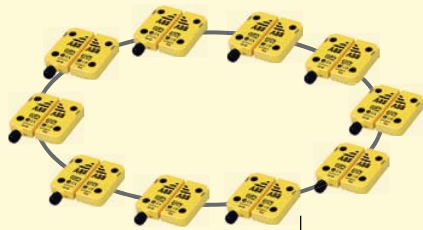
Most safety devices on the market can be connected directly to Pluto units. By using dynamic signals with sensors from ABB Jokab Safety only one input is needed to achieve the highest level of safety, compared to two inputs for other manufacturers' PLCs. It is also possible to connect up to 10 sensors in series to a single input on Pluto and still achieve the highest level of safety.

For example non-contact Eden sensors, Spot light beams and Tina emergency stop buttons can all be connected in series to a single Pluto input. Even mechanical switches can be connected to the 'dynamic' safety circuit using ABB Jokab Safety's various Tina adapters. Pluto also has IO connections that can be used as both inputs and outputs.

to save on inputs!

Dynamic signals

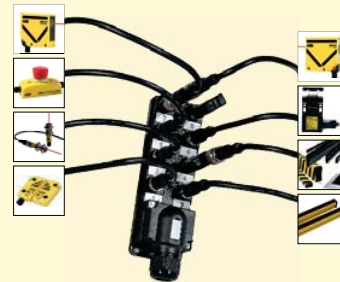
1-10 doors with one Eden per door
PL e



One input

Dynamic signals

1-10 sensors
PL e



One input

Pluto

has inputs for static and dynamic sensors. Several sensors can be connected to one dynamic input in accordance with PL e.

One connection

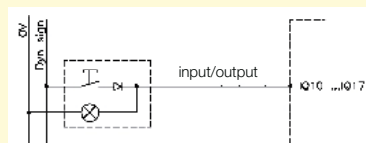


Two inputs

IO connections

Pluto has IO connections that can be used in three ways:

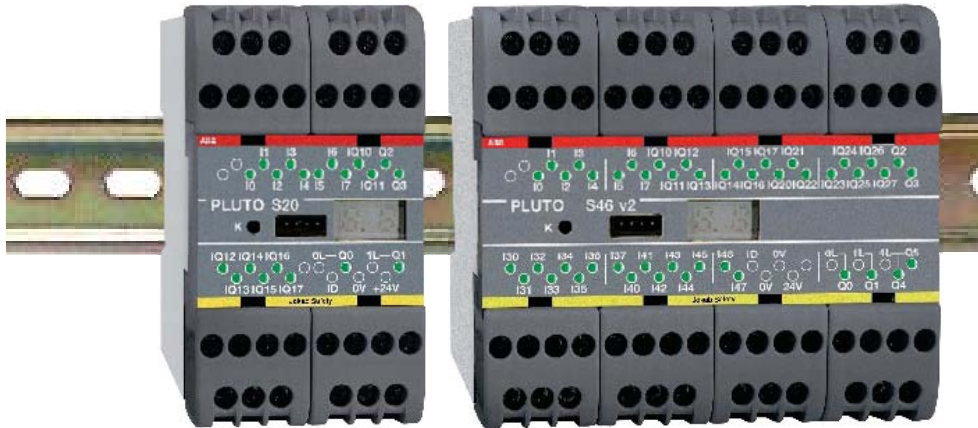
- input
- output
- both input and output at the same time (e.g. for a reset button with lamp indication)



Static inputs (mechanical switches)
2 for each door = PL e



Pluto safety PLC's



Technical data - general

Colour:	Grey
Operating voltage:	24V DC ±15%
Electrical insulation:	Category II in accordance with IEC 61010-1
Safety level	
EN 954-1	Cat. 4
EN ISO 13849-1	PL e/cat. 4
EN 61508	SIL 3
EN 62061	SIL 3
PFH _d	
Relay output	2,00×10 ⁻⁹
Transistor output	1,50×10 ⁻⁹
Pluto safety bus	
Max number of Pluto units on the databus:	32
Databus type:	CAN
Databus speeds:	100, 125, 200, 250, 400, 500, 800, 1000 kb/s
Databus cable length:	Up to 600 m, 150 m at 400 kb/s

7

Selection

Description	Part No.	Product Hierarchy 4700001	
		Order Code	Price
Pluto S20 20- I/O Non-Pluto safety bus	20-070-05	2TLA020070R0500	523.37
Pluto B46-6 46- I/O with Pluto safety bus	20-070-17	2TLA020070R1700	696.00
Pluto S46-6 46- I/O Non-Pluto safety bus	20-070-18	2TLA020070R1800	569.25
Pluto A20 20- I/O Current monitoring	20-070-03	2TLA020070R0300	694.91
Pluto B16 16- I/O Non-failsafe outputs	20-070-07	2TLA020070R0700	402.08
Pluto B20 20- I/O with Pluto safety bus	20-070-06	2TLA020070R0600	644.64
Pluto AS-i v2	20-070-11	2TLA020070R1100	POA
IDFIX-R identifier pre-programmed	20-070-20	2TLA020070R2000	9.51
IDFIX-RW identifier programmable	20-070-21	2TLA020070R2100	12.89
Pluto USB cable for programing	20-070-58	2TLA020070R5800	33.33
GATE-P2 Pluto Gateway PROFIBUS-DP	20-070-70	2TLA020071R8000	NF
GATE-C2 Pluto Gateway CANopen	20-070-71	2TLA020071R8100	NF
GATE-D2 Pluto Gateway DeviceNet	20-070-72	2TLA020071R8200	242.51
GATE-E2 Pluto Gateway Ethernet	20-070-73	2TLA020071R8300	375.87



Jokab Safety



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Vital - safety controller

Control of an entire safety system based on the dynamic safety circuit



Vital is based on a single channel safety concept where multiple safety sensors can be connected in series and monitored with a single safety controller. A dynamic signal is sent from Vital through all connected sensors, and then returned to Vital which then evaluates the received signal. As each safety sensor inverts the signal, it is possible to detect short circuits or faults in any of the sensors. Vital 2 and Vital 3 are designed for use with ABB Jokab Eden sensors, Tina components and Spot light grids or similar products. Vital 2 and 3 are both safety controllers with two safe input functions and two output groups, the only difference between the two models being in the input configuration.

Technical data - general data for Vital 1

TÜV Nord – Vital 1
TÜV Rheinland – Vital 2 and 3



Level of safety EN ISO 13849-1 EN 62061 IEC/EN 61508-1...7 EN 954-1	PL e, category 4 SIL 3 SIL 3 Category 4	Number of sensors Max. number of Eden/Tina to Vital 1 Total max. cable length to Eden/Tina Max. number of Spot T/R to Vital Total max. cable length to Spot T/R	30 1000 m 6 pairs 600 m
PFHd	1,01×10 ⁻⁸	Relay outputs NO Max switching capacity, resistive load	2 6A/250 VAC/1500 VA/150W
Power supply Vital, A1-A2 From Vital to sensors/units, B1-B2	24 VDC ±15% 24 VDC	Minimum load Contact material Mechanical life External fuse (EN 60947-5-1)	10 mA/10V AgCdO >10 ⁷ operations 6.3A or 4A slow
Dynamic safety circuit T 1 R 1	Output signal Input signal		
Reset input X1 Supply for reset input Reset current Minimum contact closure time for reset	+24VDC 30 mA max. (inrush current 300 mA during contact closure) 80 ms		

Connection of S1

Even numbers of sensors (Eden + Spot T/R + Tina) require a connection between B1 and S1. S1 is not connected for odd numbers of sensors. Odd number, no connection between B1 and S1.

7

Selection



		Product Hierarchy 4700002	
Type	Part No	Order Code	Price
Vital 2	20-070-43	2TLA020070R4300	288.45
Vital 3	20-070-44	2TLA020070R4400	POA

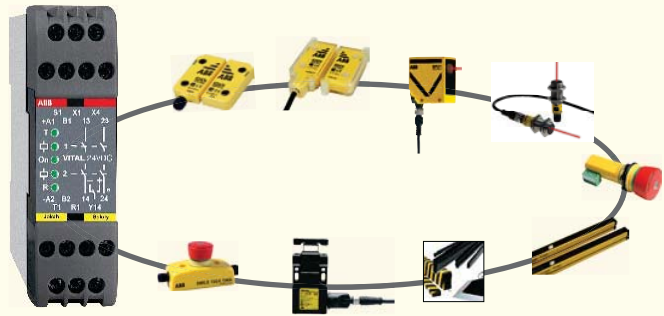
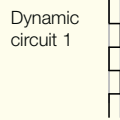
Vital - safety controller

Features

- Easy installation
- Flexible
- Cost effective
- A wide range of safety sensors can be connected into the circuit
- Several safe outputs
- Information output
- Outputs with time delay (Vital 2 and 3)
- Display for troubleshooting (Vital 2 and 3)

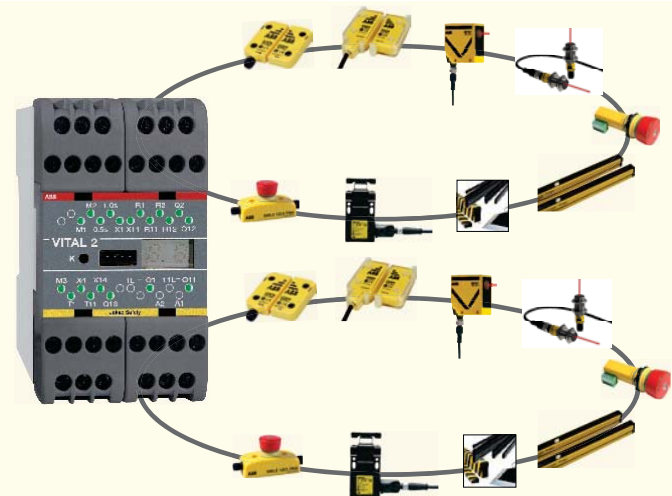
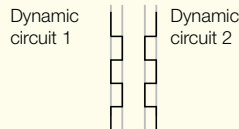
Vital 1 Safety controller

Up to 30 sensors can be connected to the same dynamic safety circuit



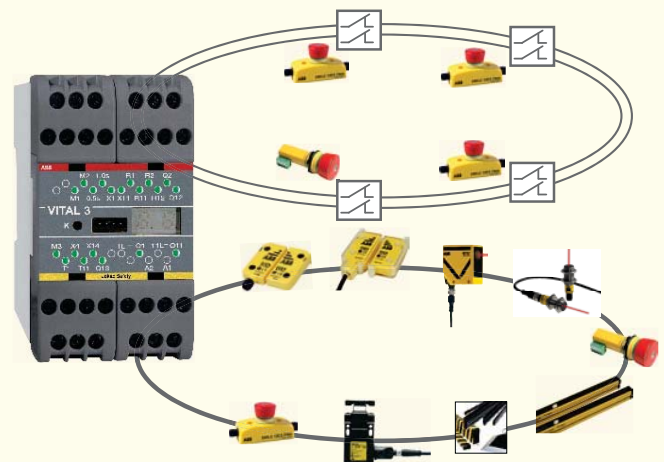
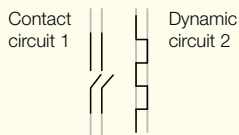
Vital 2 Safety controller

- Two safety circuits are monitored by one module
- Simple system with extensive functionality
- Up to 10 sensors can be connected to each dynamic safety circuit
- Output group 2 can be set for time delay
- Three different modes of operation



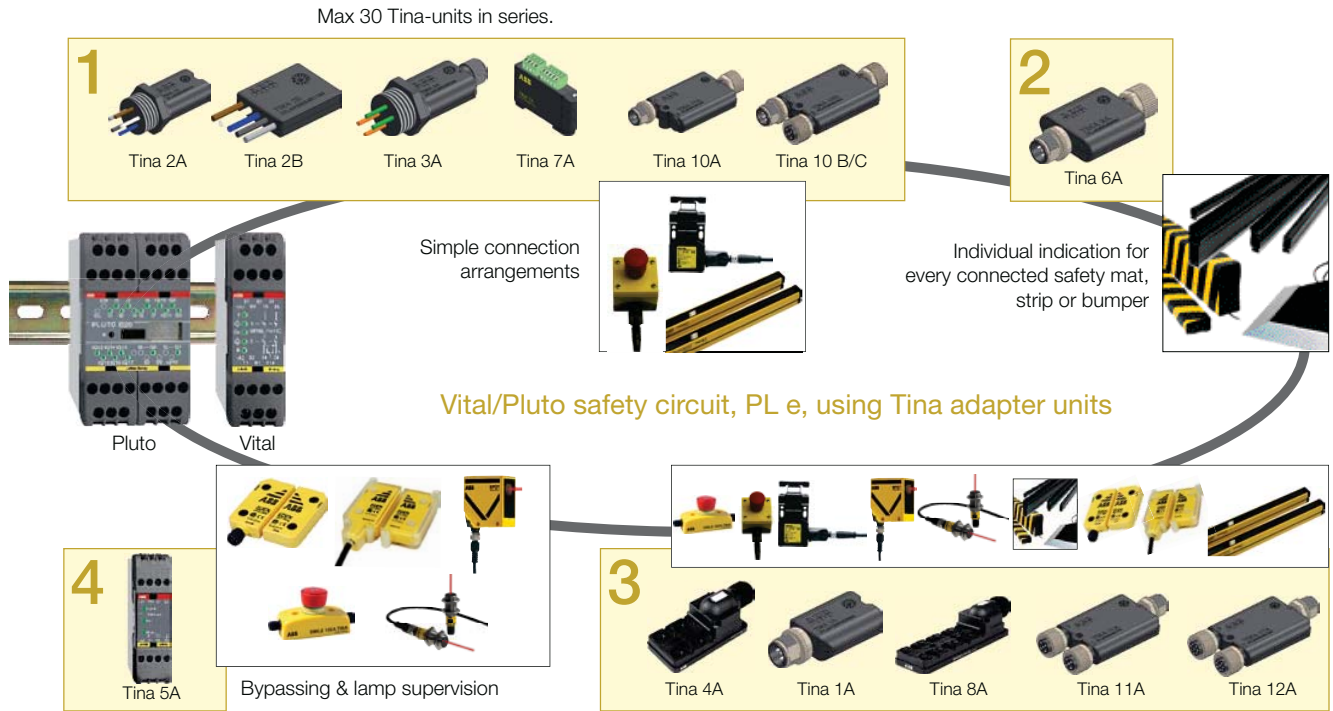
Vital 3 Safety controller

- Two safety circuits are monitored by one module
- Devices with two-channel, opening contacts can be connected to one circuit
- Simple system with extensive functionality
- Output group 2 can be set for time delay
- Three different modes of operation



Tina - adapter units

Application - adaption of many different types of safety devices to the dynamic system



7

Why you should choose Tina?

- Safety circuit, PL e, EN ISO 13849-1
- Individual status indication of every connected unit in the safety circuit
- Supervision of lamp indicating bypassing of safety device
- Quick release M12 connector

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Tina - adapter units

Tina is available in several versions

Tina is available in several versions depending on the type of safety component that is connected to the Vital or Pluto circuit. Also available is a bypassing unit, three connector blocks with 2, 4 or 8 M12 connectors, and a blind plug for un-used connections. As an accessory there is a Y-connector for series or parallel connection and even for connection of light beams

with separate transmitter and receiver. Tina units are also included in emergency stop models Smile Tina and Tina Inca. This is to adapt ABB Jokab Safety's products to dynamic safety circuits.

All Tina-units are designed to decode the dynamic signal in the safety circuit of Vital/Pluto.

1 Tina 2A/B, Tina 3A and Tina 7A

are used to connect safety components with mechanical contacts, such as emergency stops, switches and light curtains/light beams with relay outputs.

Tina 10A/B/C

units are used for connection of Focus light beams/curtains to Vital or Pluto. Tina 10B has an extra M12 connector that enables reset, a reset lamp and switching of the Focus supply voltage. The Tina 10C has an additional M12 connector that permits a Focus transmitter to receive power.

2 Tina 6A

is used to connect door sensitive edges and safety mats.

3 Tina 4A, Tina 8A, Tina 11A and Tina 12A

are used as terminal blocks and simplify connection to a Vital safety circuit.

4 Tina 5A

is used to bypass the safety sensors in Vital security loop.

7



Tina adapters

Description	Group	Part No	Product Hierarchy 4700002	
			Order Code	Price
Tina 1A plug for Tina 4/8	3	20-054-00	2TLA020054R0000	28.08
Tina 2A adapter unit	1	20-054-01	2TLA020054R0100	34.75
Tina 2B w cable to emergency	1	20-054-11	2TLA020054R1100	27.09
Tina 3A adapter unit	1	20-054-02	2TLA020054R0200	30.37
Tina 4A connection block	3	20-054-03	2TLA020054R0300	92.65
Tina 5A bypass unit	4	20-054-04	2TLA020054R0400	88.40
Tina 8A connection block w M12	3	20-054-05	2TLA020054R0500	107.95
Tina 6A adapter unit	2	20-054-06	2TLA020054R0600	38.02
Tina 7A adapter unit	1	20-054-07	2TLA020054R0700	35.18
Tina 10A	1	20-054-12	2TLA020054R1200	58.46
Tina 10B	1	20-054-13	2TLA020054R1300	68.40
Tina 10C	1	20-054-16	2TLA020054R1600	68.40
Tina 11A	3	20-054-17	2TLA020054R1700	POA
Tina 12A	3	20-054-18	2TLA020054R1800	POA

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Safety relays

Why should you use safety relays?

to meet existing safety standards

A fault in the control circuit logic, or failure of or damage to the control circuit must not lead to dangerous situations. This is the requirement in the EU's Machinery Directive 98/37/EC under the heading 1.2.7. "Failure of the control circuit". The directive implies that no person should be put at risk if for example, a relay sticks or if a transistor or two electrical conductors short-circuit.

A safety relay will fulfill these requirements. A safety relay has, for example, inputs that are checked for short-circuits and

dual redundant circuits that are checked at each operation. This can be compared to the dual brake circuits in a car. If one of the circuits is faulty the other will stop the car. In a safety relay there is an additional function which only allows a machine to start if both circuits are ok.

The standard for safety related parts of the control system describes various safety categories depending on the level of risk and application. One single universal relay with selectable safety categories solves this.

to supervise safety devices



for safe stops and reliable restarts



Dual stop signals when the gate is opened.

Entering or putting a hand or limb into a hazardous area must cause all machinery that can cause personal injury to stop safely. Many serious accidents occur when machinery is believed to have stopped but is in fact only pausing in its program sequence. The safety relay monitors the gate interlock switch and cables and gives dual stop signals.



Supervised reset when there can be a person within the risk area.

To make sure that nobody is within the restricted area when activating the reset button. A supervised reset button must be pressed and released before a reset can occur. Many serious accidents have been caused by an unintentional and unsupervised reset.



Timed reset when you cannot see the entire risk area.

Sometimes a double reset function is necessary to make sure that no one is left behind in the risk area. First, after ensuring no other person is inside the hazardous area, the pre-reset button must be activated, followed by the reset button outside the risk area within an acceptable time period e.g 10 seconds. A safety timer and a safety relay can provide this function.



Automatic reset for small hatches.

Where body entry is not possible through a hatch, the safety circuit can be automatically reset. The safety relays are reset immediately when the hatch interlock switch contacts are closed.

Safety relays

The most flexible safety relays on the market

We have the most flexible safety relays on the market. Our first universal relay was developed in 1988.

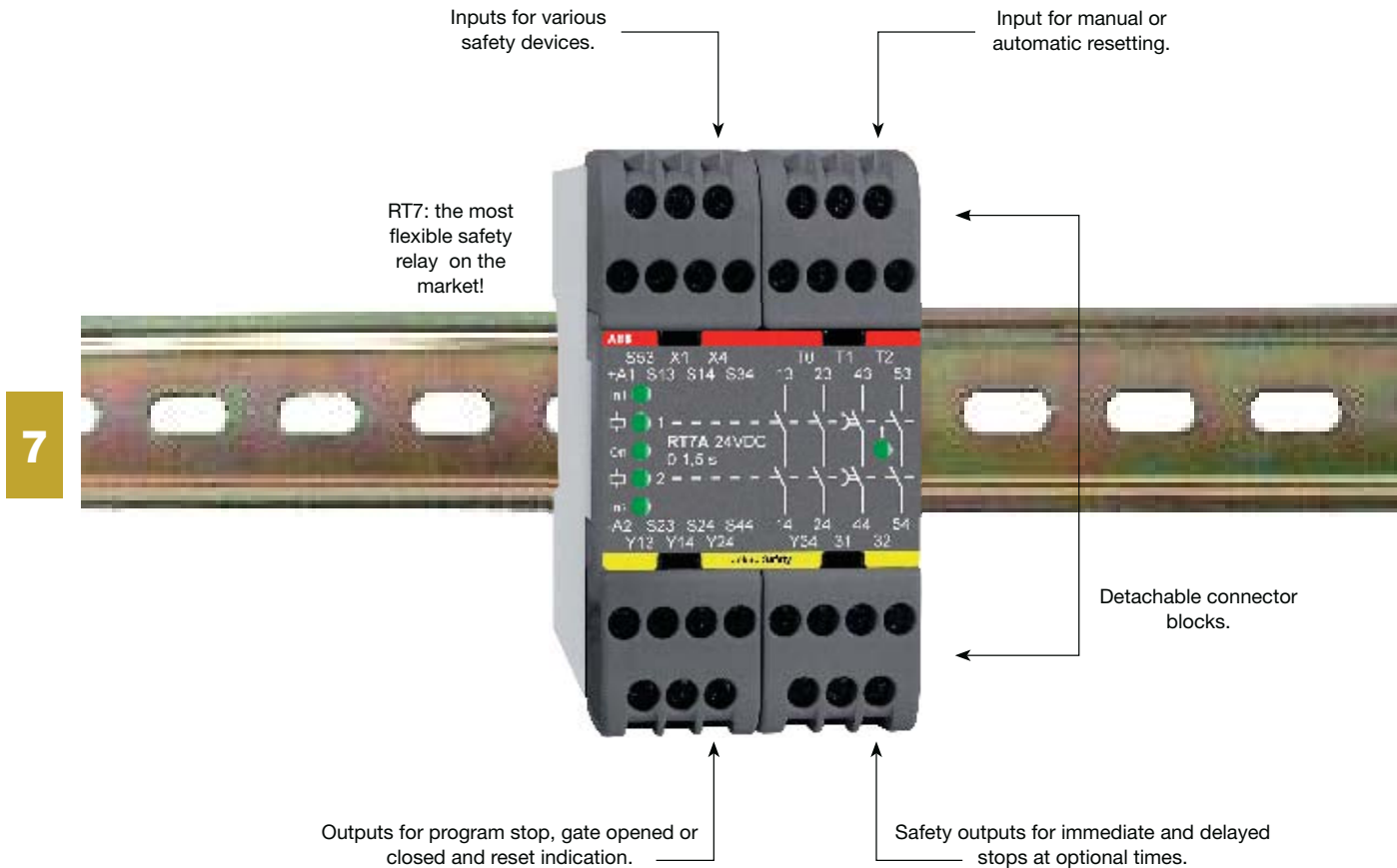
Nowadays, the flexibility is even greater and size has been reduced by 85 %. A universal relay is a safety relay with various input options for various safety devices and risk levels.

Internally, the safety relay is of the highest safety level (PL e according to EN ISO 13849-1). A machine supplier can therefore, with one single safety relay, select the input configuration that best suits their customers' safety requirements. In addition, our safety relays have detachable connector blocks for ease of replacement and testing. As our universal relays incorporate all input options,

they are compatible with all our previous safety relays as well as with other manufacturers' products.

Is a universal relay expensive? No, our latest patented construction is extremely simple and the number of major components is less compared to our previous universal relays. This means that the safety relays are even more reliable than before.

We also have a great deal of experience from safety solutions in our own system developments. It would be our pleasure to share these experiences with you! Please see the complete safety solutions in the section "Connection examples". Please do not hesitate to contact us if you should require any other safety solutions.



Some of the advantages with ABB Jokab Safety's safety relays:

- Universal relays
- Excellent reliability
- Approved in Europe, USA, Canada
- Supervised reset
- Time reset
- Small and compact
- Detachable connector blocks
- Low power consumption
- Permits the use of long emergency stop cables
- EX compatibility
- Functions set by external hardwired links
- LED indication for inputs and outputs
- Powerful switching capacity

Safety Relays

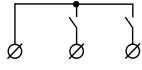
Selection

	Safety relays								Safety-timers		Expansion relays			
	RT6	RT7	RT9	JSRT11	JSR4	JSR14	JSRT5T, BT50T, BT51T	JSRT5, BT50, BT51	JSHT1A/B	JSHT2A/B/C	E1T	JSR1T	JSR2A	JSR3T
Interlocking switch/Gate/Hatch	•	•	•	•	•	•	•	•						
Light curtains	•	•	•	•										
Light beams	•	•	•	•										
Safety mats	•	•	•		•	•								
Contact strips	•	•	•		•	•								
Two-hand control device					•									
Emergency stop	•	•	•	•	•	•	•	•						
Hold to run/enabling device	•	•	•	•	•	•			•					
Foot control device	•	•	•	•	•	•			•					
Area supervision	•	•	•	•	•	•								
Time resetting									•					
Time bypassing									•	•				
Inching									•					
Output expansion	•	•	•	•		•	•	•			•	•	•	
Delayed output		•					•			•	•		•	

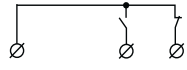
Input alternatives (see also technical data on the next page)



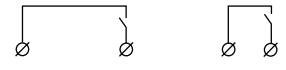
**Single-channel, 1 NO from +24 V
Category 1, up to PL c**
The input must be closed before the outputs can be activated. A stop signal is given when the input is opened.



**Two-channel, 2 NO from +24 V
Category 3, up to PL d**
Both the inputs must be closed before the outputs can be activated. A stop signal is given if one or both of the inputs are opened. Both the inputs must be opened and reclosed before the outputs can be reactivated. A short-circuit between the inputs is not monitored by the safety relay. Category 4 can only be achieved if a safety device with short circuit monitored outputs is connected.



**Two-channel, 1 NO & 1 NC from +24V
Category 4, up to PL e**
One input must be closed and one must be opened before the outputs can be activated. A stop signal is given if one or both of the inputs change position or if the inputs short-circuit. Both inputs must be put into their initial position before the outputs can be reactivated.



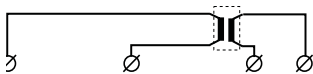
**Two-channel, 1 NO from 0 V &
Category 4, up to PL e**
Both the inputs must be closed before the outputs can be activated. A stop signal is given if one or both of the inputs are opened. Both the inputs must be opened and reclosed before the outputs can be reactivated. A Stop signal is given if there is a short-circuit between the inputs.

Safety Relays

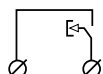
	Safety relays										Safety-timers		Expansion relays				
	RT6	RT7	RT9	JSBRT11	JSBR4	JSBT4	JSBT5T	BT50T	BT51T	BT50 (JSBT5)	BT51	JSHT1A/B	JSHT2A/B/C	E1T	JSR1T	JSR2A	JSR3T
Safety category	1-4	1-4	1-4	1-4	4	4	1-4°	1-4°	1-4°	1-4°	1-4°	1-4	1-4	1-4	1-4	1-4	1-4
Safety input																	
Single-channel, 1 NO from +24 V	•	•	•	•			•	•	•	•	•	•	•	•	•	•	•
Two-channel, 2 NO from +24 V	•	•	•	•													
Two-channel, 1 NO & 1 NC from +24 V	•	•	•	•													
Two-channel, 1 NO from 0 V & 1 NO from + 24 V	•	•	•	•	•	•						•	•	•	•	•	•
Contact strips/Safety mats	•	•	•		•	•											
Reset & test input																	
Monitored manual	•	•	•	•	•												
Automatic/Unmonitored manual	•	•	•	•		•	•	•	•	•	•						
Testing of contactors, relays, valves, etc.	•	•	•	•	•	•	•	•	•	•	•	•	•				
Output																	
NO	3	2	2	7	3	3				3	4			4*	4*	4	
NO delayed		2					3 [†]	3	4					4*	4*		2 [‡]
NO impulse outputs												2 [‡]	2 [‡]				
NC	1	1		2	1	1				1					1*	1	
NC delayed							1 [†]	1							1*		
Info. output	2	3	1						1	1							
Switching capacity (resistive load)																	
6A/250VAC/1500VA/150W	4	3	2	9	4	4	4	4 [†]	4 [†]	4	4			4	5		
4A/250VAC/1000VA/100W												2 [‡]	2 [‡]				2 [‡]
6A/250VAC/1380VA/138W		2 [†]															
10A/250VAC/1840VA/192W																	5
Width (mm)	45	45	22,5	100	45	45	22,5	22,5	22,5	22,5	22,5	45	45	22,5	45	45	22,5
Supply voltage																	
12VDC							•										
24VDC	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
24VAC	•	•		•	•	•	•					•	•			•	•
48VAC	•	•		•	•	•						•	•			•	
115VAC	•	•		•	•	•						•	•			•	
230VAC	•	•		•	•	•						•	•			•	

[†] Indicates the possibility of selecting delayed outputs [‡] Indicates one relay contact per output (other relays having two contacts per output)
[°] delayed [°] Category 4 depending on connection (When used as expansion relay with Pluto Safety PLC, then Category 4) [†] fixed 0.5 s delay

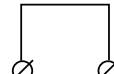
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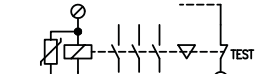
Contact strips/Safety mats
Category 3, up to PL d
 For an unpressurised mat/strip, both the relay inputs must be closed for the outputs to be activated. In the case of an activated mat/strip and short-circuit input channels, the relay will be de-energized. Current limitation prevents the safety relay from being overloaded when the channels short-circuit.



Monitored manual reset
 A monitored reset means that the safety relay will not be reset if the reset button gets jammed when pressed in or if the input short-circuits. In order for the resetting to be complete, the input must be closed and opened before the outputs can close.



Automatic/unmonitored manual reset
 Automatic reset means that the outputs are closed immediately when both the input conditions are satisfied and the test input is closed.



Testing of contactors, relays & valves
 Can be carried out with both automatic and manual reset.

Safety Relays



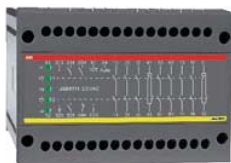
JSBR4



JSHT1



JSR1T



JSBRT11



RT6



JSBT5



JSHT2



JSR2A

Safety Relays

Description	Part No.	Product Hierarchy 4700003	
		Order Code	Price
JSBR4 24DC Safety relay	10-002-00	2TLA010002R0000	POA
JSBR4 24AC Safety relay	10-002-02	2TLA010002R0200	197.77
JSBR4 115AC Safety relay	10-002-04	2TLA010002R0400	192.31
JSBR4 230AC Safety relay	10-002-05	2TLA010002R0500	192.31
JSBT5 24AC/DC Safety relay	10-005-01	2TLA010005R0100	103.14
JSBT5 12VDC Safety relay	10-005-07	2TLA010005R0700	104.56
JSBT5T 24AC/DC Safety relay	10-005-11	2TLA010005R1100	103.14
JSH1A 24DC Time module	10-011-00	2TLA010011R0000	133.30
JSH1B 24DC Time module	10-011-10	2TLA010011R1000	133.30
JSH2A 24AC Time module	10-012-02	2TLA010012R0000	133.30
JSH2B 24DC Time module	10-012-10	2TLA010012R1000	133.30
JSH2C 24DC Time module	10-012-20	2TLA010012R1000	133.30
JSR1T 0s Expan. relay 6A 24 DC	10-015-00	2TLA010015R0000	133.30
JSR1T 1.5s Expan. relay 6A 24DC	10-015-05	2TLA010015R0500	112.54
JSR1T 8s Expan. relay 6A 24 DC	10-015-06	2TLA010015R0600	112.54
JSR1T 0.5s Expan. relay 6A 24 D	10-015-10	2TLA010015R1000	112.54
JSR1T 10s Expan. relay 6A 24DC	10-015-20	2TLA010015R2000	112.54
JSR1T 1s Expan. relay 6A 24 DC	10-015-30	2TLA010015R3000	112.54
JSR1T 2s Expan. relay 6A 24 DC	10-015-40	2TLA010015R4000	112.54
JSR1T 3s Expan. relay 6A 24 DC	10-015-50	2TLA010015R5000	112.54
JSR1T 5s Expan. relay 6A 24DC	10-015-60	2TLA010015R6000	112.54
JSR3T Expan. relay. 24 AC/DC	10-017-01	2TLA010017R0100	112.54
JSBRT11 24DC Safety relay	10-025-00	2TLA010025R0000	93.20
JSBRT11 115AC Safety relay	10-025-04	2TLA010025R0400	227.26
JSBRT11 230AC Safety relay	10-025-05	2TLA010025R0500	242.56
RT6 24DC Safety relay	10-026-00	2TLA010026R0000	242.56
RT6 24AC Safety relay	10-026-02	2TLA010026R0200	149.69
RT6 115AC Safety relay	10-026-04	2TLA010026R0400	164.99
RT6 230AC Safety relay	10-026-05	2TLA010026R0500	160.62
JSR2A Expan. relay 10A 24AC/DC	10-027-01	2TLA010027R0100	160.62
JSR2A Expan. relay 10A 115AC	10-027-04	2TLA010027R0400	149.69
JSR2A Expan. relay 10A 230AC	10-027-05	2TLA010027R0500	149.69

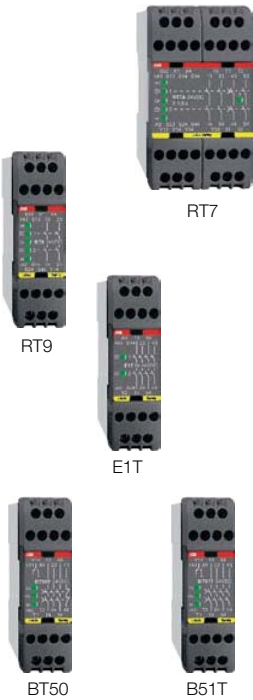
Jokab Safety



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Safety Handbook
2TLC172001C0201

Safety Relays



Safety Relays

Description	Part No.	Product Hierarchy 4700003	
		Order Code	Price
RT7B 24DC Safety relay 3s	10-028-10	2TLA010028R1000	149.69
RT7B 115AC Safety relay 3s	10-028-14	2TLA010028R1400	199.95
RT7B 230AC Safety relay 3s	10-028-15	2TLA010028R1500	211.97
RT7A 24DC Safety relay 1.5s	10-028-20	2TLA010028R2000	211.97
RT7A 24AC Safety relay 1.5s	10-028-22	2TLA010028R2000	211.97
RT7A 115AC Safety relay 1.5s	10-028-24	2TLA010028R2400	199.95
RT7A 230AC Safety relay 1.5s	10-028-25	2TLA010028R2500	199.95
RT9 24DC Safety relay	10-029-00	2TLA010029R0000	211.97
E1T 0s Expansion relay 24DC	10-030-00	2TLA010030R0000	211.97
E1T 0.5s Expansion relay 24DC	10-030-10	2TLA010030R1000	108.39
E1T 1s Expansion relay 24DC	10-030-20	2TLA010030R2000	96.92
E1T 1.5s Expansion relay 24DC	10-030-30	2TLA010030R3000	96.92
E1T 2s Expansion relay 24DC	10-030-40	2TLA010030R4000	96.92
E1T 3s Expansion relay 24DC	10-030-50	2TLA010030R5000	96.92
BT50 24DC Safety relay	10-033-00	2TLA010033R0000	96.92
BT50T 24DC Safety relay	10-033-10	2TLA010033R1000	97.91
BT51 24DC Safety relay	10-033-20	2TLA010033R2000	100.30
BT51T 24DC Safety Relay	10-033-30	2TLA010033R3000	100.74

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Safety light grids, curtains and scanners Focus II

Application:

Optical protection in an opening or around a risk area



7

A light grid/light curtain with many possibilities



Focus II is a new version of our previous light beam/light curtain Focus. Features such as muting and override are standard in all Focus II light curtains and light beams. For light curtains, blanking and break functions are also standard. The optical sensors on Focus II also have variable frequency. The Focus II units are light grids/curtains with safety functions intended for applications where it is of great importance to protect persons from a dangerous machine, robot or other automated systems where it is possible to access to a dangerous area.

Focus II creates a protection field with infrared beams. If any beam is interrupted the safety mechanism is triggered and the dangerous machine is stopped. Focus II fulfills the requirements for non-contact safety equipment type 4 (Focus 4 series) according to the international regulation standard EN 61496-1.

Units are available with safety heights between 150 and 2400 mm. All electronic control and monitoring functions are included in the light curtain profiles. External connection is made via a M12

connection at the end of the profile. Synchronization between transmitter and receiver is achieved optically. No electrical connection between the units is required. Control and monitoring of the beam transmission is carried out by two micro-processors which also give information on the status and alignment of the light curtain via several LEDs.

Muting and Override included in all Focus II

The "Muting" and "Override" functions are available on all Focus II light grids/curtains and is enabled directly when an indication lamp LMS is connected. Muting implies that one or more segments or the whole light curtain can be bypassed during in and out passage of material.

In the Focus II with Muting there is also an Override function which makes it possible to bypass the light grid/curtain i.e. activate the outputs if a machine start is necessary even if one or more light beams are interrupted. This is the case when the muting function is chosen and the A and B inputs

Safety light grids, curtains and scanners

Focus II

Features

- Type 4 according to EN 61496
- Flexible assembly
- LED indication
- High protection class (IP65)
- Range 3-40 m
- Time reset
- Muting
- Single/Double Break function
- External Device Monitoring (EDM)
- Available with different resolutions
- Up to PL e according to EN 954-1/EN ISO 13849-1

Technical data - general

Performance

Protective height	150mm - 2400mm
Object resolution	14mm and 30mm
Beam pitch (centre)	7.5mm and 18mm
Operating range	0.2m - 3.0m (14mm resolution), default 3.0m - 6.0m (14mm resolution), DIP switch option 0.2m - 7.0m (30mm resolution), default 7.0m - 14m (30mm resolution), DIP switch option
Effective aperture angle	For FII-2-xx-yyyy: $\pm 5^\circ$ maximum, transmitter and receiver according to IEC61496-2 for distances >3m For FII-4-xx-yyyy: $\pm 2.5^\circ$ maximum, transmitter and receiver according to IEC61496-2 for distances >3m
Response time ON to OFF	Maximum: 103ms.
Light source	Infrared emitting LEDs, wavelength 880nm Power dissipation: <3mW class 1 acc. EN60825-1

Mechanical

Housing material	Painted aluminium, yellow, RAL 1018
Front plastic material	Polycarbonate
Connector material	Polyamide 6.6
End cup material	Polycarbonate
Sealing, gasket material	EPDM
Mounting bracket material	Black powder coated stainless steel
Mounting bolt	Stainless steel M6
Wiring connectors	8 pin receiver and 5 pin transmitter

Environmental

Enclosure rating	IP65
Operating temperature	-10°C ... +55°C
Storage temperature	-25°C ... +70°C
Relative humidity	95% maximum. non condensing
Vibration (IEC 60086-2-6)	10-70 Hz, 0,35mm, maximum on all 3 axes
Shock (IEC 60086-2-29)	30 G for 16ms, 1000 shock on all 3 axes

Electrical

Power transmitter	24VDC $\pm 20\%$, maximum current 70mA
Power receiver	24VDC $\pm 20\%$, maximum current 100mA
Input voltage threshold	$V_{H,min} = 17VDC$, $V_{L,max} = 6V$
Test/reset	10mA, 24VDC, normally closed input, >2,5s
Muting A	10mA, 24VDC
Muting B	10mA, 24VDC
EDM	10mA, 24VDC
Muting lamp	50mA min, 24VDC

7

Safety light grids, curtains and scanners

Focus II

Technical data - general

Electrical

Safety outputs (OSSD)	Two PNP safety outputs, each sourcing 500mA 24VDC. Short circuit protection.
Voltage drop	< 2,3 v
Leakage current	< 1 mA
Capacitive load	< 250 nF for OSSD output
Inductive load	Please contact us
Test pulse data	Test pulse <300us Test interval, response time x 0,33 Repetition, response time x 0,66
Power supply	Must meet the requirements of EN/IEC60204-1 and EN/IEC61496-1, and must guarantee safe insulation from the mains voltage in accordance with IEC60742 and be able to cover a drop of supply voltage of at least 20 ms.
Protection class (IEC 536 or VDE 106)	III
Power on delay	<2 s
Insulation resistance	> 20 M ohms
Dielectric voltage strength	350 vAC (1 min)

Connections

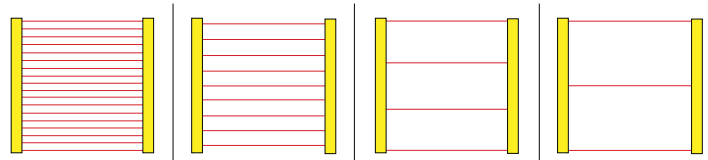
Cable length Focus II	Shielded cables: Max. 100m, 0,4mm ² Max. 50m, 0,2mm ²
Cable length Focus II Mix	Shielded cables, M12 connector 8-pin these cables are shipped with the sensors. Maximum length is 0,9m.

Conformity

AOPD (ESPE)	FI-2-xx-yyyy: Type 2 acc. to EN/IEC 61496-1 and EN/IEC 61496-2 FI-4-xx-yyyy: Type 4 acc. to EN/IEC 61496-1 and EN/IEC 61496-2
Category	FI-2-xx-yyyy system is suitable for safety control systems up to category 2 acc. EN 954-1 FI-4-xx-yyyy system is suitable for safety control systems up to category 4 acc. EN 954-1
Safety integrity level	Focus II system is suitable for up to SIL 3 per IEC 61508
Performance level	Focus II type 2 systems is suitable for safety control systems up to Performance level c acc. EN ISO 13849-1. Focus II type 4 systems is suitable for safety control systems up to Performance level c acc. EN ISO 13849-1.
Mean time to dangerous failure (MTTF _d)	450 years
PFH	2,5*10 ⁻⁰⁹
Proof test interval	Every 20 years

Safety light grids, curtains and scanners

Focus II - light curtain/grid, Type 4 (FII-4)



Type 4	FII-4-14-zzzz	FII-4-30-zzzz	FII-4-K4-zzzz		FII-4-K3-800
Resolution	14	30	300	400	400
Height (mm=zzzz)	150 300 450 600 750 900 1050 1200 1350 1500 1650 1800 1950 2100 2250 2400	150 300 450 600 750 900 1050 1200 1350 1500 1650 1800 1950 2100 2250 2400	900	1200	800
Range (m) SR LR	0,2-3 3-6	0,2-7 7-14	0,5-20 20-40		0,5-20 20-40
Reaction time off (ms)	12-68	9-31	13		13
Reaction time on (ms)	138-104	141-119	142		142
Manual reset	•	•	•		•
Automatic reset	•	•	•		•
Pre reset	•	•	•		•
Muting inputs	•	•	•		•
Muting lamp supervision	•	•	•		•
Override	•	•	•		•
Muting T/L/X	• / • / •	• / • / •	• / • / •		• / • / •
Blanking 3 types	• / • / •	• / • / •	- / - / -		- / - / -
Single/Double break	• / •	• / •	- / -		- / -
EDM	•	•	•		•
Dyn. Adaption to Vital/Pluto	□	□	□		□

• Standard

□ With Tina 10A/10B/10C or FMC-Tina

7

FII-4-K2-500		FII-4-K4-zzzz D		FII-4-K3-800 D	FII-4-K2-500 D		FII-4-K2C-zzzz		FII-4-K2C-800	FII-4-K1C-500
500	300	400	400	400	500	500	300	400	800	500
500	900	1200	800	800	500	500	900	1200	800	500
0,5-20 20-40	0,5-20 20-40	0,5-20 20-40	0,5-20 20-40	0,5-20 20-40	0,5-20 20-40	0,5-20 20-40	0,5-7	0,5-7	0,5-8	0,5-12
13	13	13	13	13	13	13	13	13	13	13
142	142	142	142	142	142	142	142	142	142	142
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□	□	□	□	□	□	□	□	□	□	□

Safety light grids, curtains and scanners

Focus II - FMC, FMI, FRM- versions and Tina units

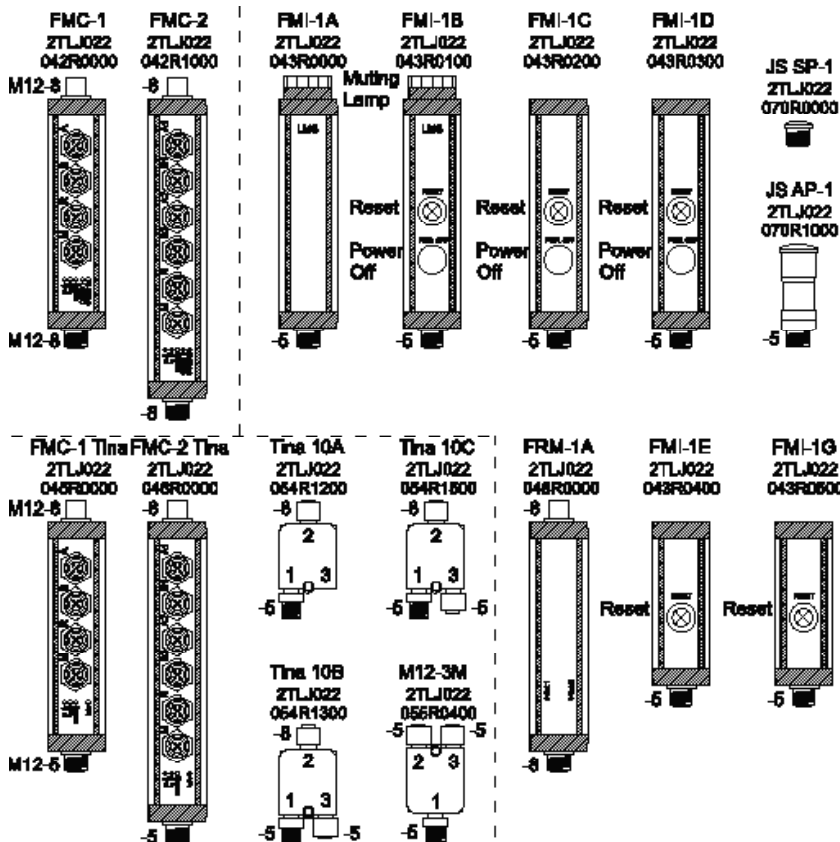


The FMC Focus Muting Connector, is a small, optimal unit which is used when the Focus light grid/curtain is required to be bypassed for in and out passage to and from a dangerous area. The FMC-unit is easily connected to Focus with a M12 connector.

The FMI Focus Muting Indicator, is a small unit with built-in muting lamp, reset button, "power off" (for alignment and override). The FMI unit is connected to the FMC unit with M12 connectors to facilitate the muting function connection.

Tina-versions have dynamic safety outputs for Vital/Pluto

7



- FMC-1(2): with connectors for muting sensors (A+B), reset, power off and muting lamp (R) and muting lamp (M).
- FMI-1A: with muting lamp only.
- FMI-1B: with reset, power off and muting lamp.
- FMI-1C: with reset and power off.
- FMI-1D: with reset, power off and internal resistor for the muting lamp.
- FMI-1E: as pre reset connected to connector A (A2) on FMC-1(2) (Tina).
- FMI-1G: with reset, and internal resistor for the muting lamp.
- FMC-1 (2) Tina: same as FMC-1(2) but connected to Vital or Pluto.
- Tina 10A: adaptor unit for connecting Focus to Vital or Pluto.
- Tina 10B: simplified FMC-1(2) Tina including only the connector (R).
- Tina 10C: simplified FMC-1(2) Tina including only power supply on con.no.3.
- M12-3M: bypass unit for easy connection outside the cabinet
- FRM-1A: translates the two OSSD outputs to relay outputs (and power supply).
- JS SP-1: protection plug for not used connectors.
- JS AP-1: adaptor for FMC units to use instead of FMI-1B or -1D on the (R) connector including muting resistor.

Safety light grids, curtains and scanners

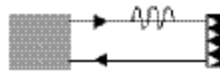
Muting sensors – Mute R



Retro-reflective with polarizing filters



10...30 VDC
PNP
Dark-on output



Features

- Range adjustable
- Light reserve warning indicator
- Transistor output, PNP
- 1000 Hz switching frequency
- Short-circuit protection, reverse polarity protection and power-up output suppression
- Connector M12
- EMC tested according to IEC 801 and EN50081-1/EN 50082-2

Technical data - general

Description		Product Hierarchy 4700004	
		Order Code	Price
	Part No		
	Mute R (FSTR-1)	2TLA022044R0000	227.40
Output	PNP, dark on		
Connection	Connector M12		
Range adjustment	Yes		
Range	0.15... 2.5 m (with reflector FZR 1) 0.15...5m (with reflector FZR 2A)		
Light source	Visible-red, 660 nm, pulsed with polarizing filter		
Supply voltage	10...30 VDC		
Allowable ripple	± 10% of U _s		
Current consumption (without load)	<15 mA		
Max. load current	100 mA		
Residual voltage	<1,6 V		
Max. switching frequency	1000 Hz		
Protection class	IP67		
Temperature (operating and storage)	-25 to +65° C		
Weight	approx. 15 g		
All technical data at 25° C and 24V.			

Safety light grids, curtains and scanners

Bjorn - strong supports for light grids and mirrors

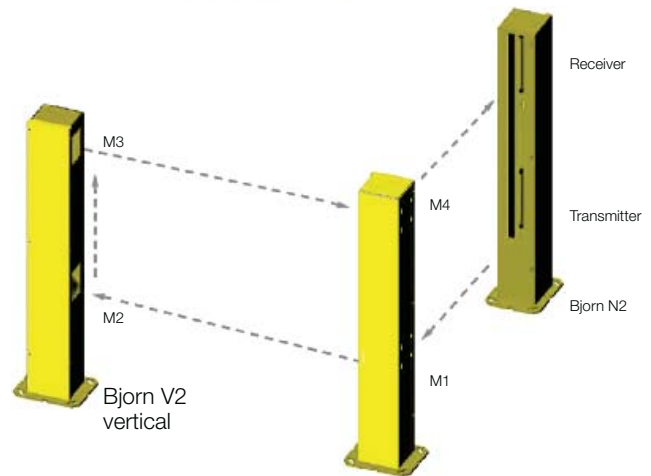


Protects light curtain, light grids and mirror

Bjorn is a very stable and flexible stand system in which Focus safety light beams and mirrors are mounted in the stand. The fixings for the mirrors in the stand can be turned to provide either vertical or horizontal angles. The robust material of the Bjorn protects Focus units from direct collisions, and thus prevents unnecessary material damage and halts in production.

7

Bjorn is available in stock as a standard version for dual safety light beams. Bjorn versions can also be ordered for Focus 3 and 4-beams.



Technical data - general

Description	
Colour:	Yellow powder-coated (RAL 1018)
Material:	3 mm steel
Dimensions: Cross section Foot	146 mm x 130 mm 230 mm x 190 mm
Weight: H2, V2 and N2 H3 H4-1, H4-2 N5	15 kg/piece 17 kg/piece 20 kg/piece 27 kg/piece
Mirror reduction:	≤10 %

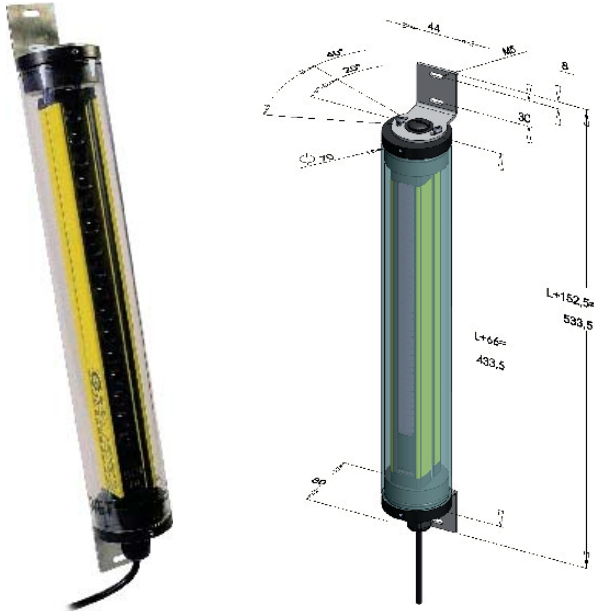
Selection

Type	Part No.	Product Hierarchy 4700004	
		Order Code	Price
Bjorn H2	22-041-40	2TLA022041R4000	100.74
Bjorn V2	22-041-41	2TLA022041R4100	POA
Bjorn H3	22-041-42	2TLA022041R4200	POA
Bjorn H4-1	22-041-43	2TLA022041R4300	POA
Bjorn H4-2	22-041-44	2TLA022041R4400	POA
Bjorn N2	22-041-45	2TLA022041R4500	POA
Bjorn N3	22-041-46	2TLA022041R4600	POA
Bjorn N4-1	22-041-47	2TLA022041R4700	POA
Bjorn N4-2	22-041-48	2TLA022041R4800	POA
Bjorn N5	22-041-48	2TLA022041R4900	POA

H = Horizontal reflection
V = Vertical reflection
N = Floor stand for Focus

Safety light grids, curtains and scanners

Focus Wet - protection against water and dust for Focus light curtains and light beams



Protection in severe environments

- Adjustable $\pm 20^\circ$
- Rotatable and replaceable tube
- Capable of draining and through ventilation

Wet is used for protection against water (or dust) where extreme washing conditions are encountered. The protective encapsulation rating (IP68) now enables Focus light curtains and light beams to be used for such applications as the food industry where the use of high pressure washing for cleaning machinery often occurs. The draining and through ventilation capabilities mean that condensation can be avoided.

Wet, with Focus light curtains or light beams, is pre-assembled complete with cabling, on request. During installation on a machine a Wet unit can be adjusted by $\pm 20^\circ$ with the accompanying angle bracket. The plastic tube is rotatable and the outside is easy to clean.

Technical data - general

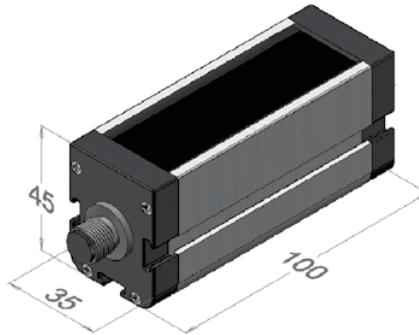
Description	
Colour:	Transparent plastic
Length including lid:	light curtain/light beam + 66 mm
Material:	
Tube	PC
Lid	PEHD-300
Angle bracket	Stainless steel
Max. ambient temperature:	+55°C
Installation adjustment	$\pm 20^\circ$
Protection rating	IP68 (IP69K)

Selection

		Product Hierarchy 4700004	
Type	Part No.	Order Code	Price
WET-150 FII	22-038-00	2TLJ022038R0000	183.56
WET-300 FII	22-038-01	2TLJ022038R0100	189.02
WET-450 FII	22-038-02	2TLJ022038R0200	195.58
WET-600 FII	22-038-03	2TLJ022038R0300	203.23
WET-750 FII	22-038-04	2TLJ022038R0400	209.79
WET-900 FII	22-038-05	2TLJ022038R0500	217.43
WET-1050 FII	22-038-14	2TLJ022038R1400	228.36
WET-1200 FII	22-038-06	2TLJ022038R0600	231.64
WET-1350 FII	22-038-15	2TLJ022038R1500	241.47
WET-1500 FII	22-038-07	2TLJ022038R0700	246.94
WET-1650 FII	22-038-08	2TLJ022038R0800	252.40
WET-1800 FII		2TLJ022038R1900	POA
WET-K-500 FII	22-038-09	2TLJ022038R0900	206.50
WET-K-800 FII	22-038-10	2TLJ022038R1000	220.71
WET-K-900 FII	22-038-11	2TLJ022038R1100	226.17
WET-K-1200 FII	22-038-12	2TLJ022038R1200	240.38
WET-L- FII		2TLJ022038R1800	202.13
WET-T- FII		2TLJ022038R1700	222.89

Safety light grids, curtains and scanners

Laser aligners - JSRL-2 & 3



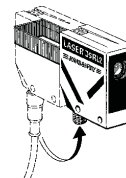
When the solution involves one or more mirrors JSRL-3 facilitates alignment of light beams or light curtains. The JSRL-3 is easily secured using the accompanying elasticated tape around the transmitter and receiver unit, and must be placed so that the flat rear of the unit is up against the front glass of the light curtain. When the laser aligner is switched on the red laser spot should be visible at the corresponding unit, even via mirrors.

7

The JSRL-3 contains two type AAA batteries that are changed by unscrewing the bottom end cap.

Selection

		Product Hierarchy 4700004	
Type	Part No	Order Code	Price
JSRL-2	20-008-01	2TLA020008R0100	POA
JSRL-3	20-008-02	2TLA020008R0200	POA



Laser aligner JSRL2 for light beam Spot T/R.

Safety light grids, curtains and scanners

Spot - safety light beams



Photoelectric guarding of an entrance or risk area

- Safety level Type 4 according to EN 61496
- Versatile mounting
- LED indication
- Protection class IP67
- 10 m or 35 m range
- Bypassing possibility
- Light beam, emergency stop and Eden in the same safety circuit together with Vital/Pluto achieves PL e according to EN SO 13849-1

A light beam for the highest safety level

The light beam is available in two versions Spot 10 for distances up to 10 m and Spot 35 for up to 35 m. The light beams can be mounted at different heights and be angled around a machine using our mirrors and brackets.

Spot and Vital/Pluto in combination fulfils the requirements for PL e according to EN ISO 13849-1 and type 4 according to EN 61496. Several light beams, Eden sensors and emergency stops can be connected in series achieving the high safety level for the safety circuit. A number of solutions for bypassing of light beams for material transport are available.

For indication there are LED's on the transmitter and on the receiver which indicate 'contact' between transmitter and receiver and safety status. The 'contact' information is available via the light beam receiver connection cables.

Function

The Spot light beam is supervised by the Vital safety controller or by the Pluto safety-PLC. A unique coded signal is sent out from the control unit to the transmitter (Spot T). The signal which comes back from the receiver (Spot R) is then compared in the Vital/Pluto. If the correct coded signal is received the Vital/Pluto switches the necessary safety output contacts to permit dangerous machine movements. Coding guarantees that no output signals can be produced by light from other sources, interference or faults in components in the transmitter or receiver. The light beam is dynamically supervised which means that if the signal stops pulsating at the correct frequency it is immediately detected. By means of coding, the dynamic signal can pass between up to 6 pairs of transmitters and receivers, with only one pair needing to be electrically connected to a Vital.

Technical data - general



Description	
Safety level EN/IEC 61496 EN 954-1 EN ISO 13849-1	Type 4 with Vital/Pluto Category 4 PL e
PFH _d	1,14x10 ⁻⁹
Power supply	17 – 27 VDC, ripple ±10%
Light source	Red visible light, 660 nm, <±2°
Protection class	IP 67
Range	
Spot 10:	0 - 10 m
Spot 35:	0 - 35 m
Installation	
Spot 10:	2xM18 nuts (provided)
Spot 35:	Either via mounting holes in the casing or with angle bracket JSM63 (provided)
Operating temperature range	-25°C – +65°C
Cable connection	M12 fixed connector

Selection

Selection		Product Hierarchy 4700004	
Type	Part No	Order Code	Price
Spot 10 T/R	20-009-05	2TLA020009R0600	227.40
Spot 35 T/R	20-009-06	2TLA020009R0500	259.75

Safety light grids, curtains and scanners

Look - laser scanner



A laser scanner that has the ability to scan four individual areas

7

The Laser Scanner 'Look' has the ability to scan four individual areas. Each area can be programmed individually for the specific application, making it ideal for auto-carriers that need to operate along different paths. The safety level is according to Type 3, EN 61496-3. It is approved for use as personnel protection in robot working areas, conveyor equipment etc. The small design makes it easy to install. Look is not affected by ambient light levels (sun etc) or welding arcs/sparks. The protection fields are quick and easy to create on a PC in a Windows environment. It has four individual programmable protection areas. Each area consists of one personnel protection field with maximum 4 m radius, and one warning field of maximum 15 m radius. Changing between the areas is easily achieved using additional sensors.

Selection

Part No	Product Hierarchy 4700004	
	Order Code	Price
Look JS4-4	50034195	251.31

Photoelectric guarding of several risk areas

- Type 3, IEC61496-3
- Easy to install
- Protected from welding sparks/arcs
- Easy to program
- 4 individual programmable protection areas simultaneously with Pluto

Technical data - general



Description	
Safety level EN/IEC 61496 EN 954-1 EN ISO 13849-1 PFH _d	Type 3 Category 3 PL d 1,50E-07
General data Scanning rate: Scanning angle: Operating voltage: Transmitter: Current consumption: Angle resolution: Weight: Housing:	25 Scans/sec 190° 24 VDC +20%/ -30% Laserdiode; Protection class 1 approx. 300 mA 0,36° 2 kg H=155 mm, W=140 mm, D=135 mm
Personnel protection field Scanning distance: Area: Output:	Radius 0.2 - 4 m 4 areas, switchable by 24 VDC input 2 x OSSD; 250 mA; failsafe transistor PNP outputs 24 VDC 70 mm at 4 m
Resolution: Response time: Reflectance factor:	80 ms min 1,8 %
Warning field Scanning distance: Area: Output: Resolution: Response time: Reflectance factor:	Radius 0 - 15 m 4 areas, switchable by 24 VDC input PNP-transistor, 24 VDC/100 mA 150 mm at 15 m, ± 20% 80 ms min 20%
Contour measurement Measurement range: Output: Response time: Reflectance factor: Reset: Suitable interface safety relay:	Radius 0- 50 m RS 232/422 80 ms min 20% manual or automatic RT6, RT7, RT9, JSBRT11 or Pluto
Conformity:	Machine directive 2006/42/EG EN ISO 12100-1/2, EN 954-1, EN ISO 13849-1, -2, EN 61496-1

Stopping time and machine diagnosis tools

Smart manager



Smart is ideal for safety supervision and for diagnosis of machine operation

Smart shows graphs/values for:

- Stopping time
- Stopping distance
- Speed
- Position of stopping signal

Smart has many valuable features for machine diagnosis:

- Graphic presentation of measurements
- Easy to analyse stopping characteristics and movement
- Gives parameters for safety design (e.g. stop time)
- Calculates minimum allowed safety distance
- Shows how the stop distance can be optimised
- Electrical reaction time and mechanical/hydraulic breaking can be identified and analysed
- Digital in/out signals and analogue inputs

Smart is perfect for periodic monitoring of safety parameters and other conditions for the maintenance and trouble-shooting of machines. Because Smart can compare old and new graphs, it becomes easy to find out the reasons for machine malfunctions. One can also supervise machines during operation and compare how they perform over time.

Easy to use:

- Measurements with or without electrical connection
- Ideal for machine performance diagnosis
- Calculation of correct safety distances

Stopping units and sensors

Smart is a further development of our well established JSSM1 Stopping Analyser. All the stopping units and sensors for the JSSM1 can also be used with Smart. The amount of connection possibilities have also increased. Smart has 9 digital I/O, one input for an incremental sensor (for position and speed) and two analogue inputs. This makes it easy to measure sequences in conjunction with motion lapse and other analogue values.

Stopping time and machine diagnosis tools

Smart & accessories



Smart & accessories

Description	Application	Part No	Product Hierarchy 4700005	
			Order Code	Price
Smart logger	-	70-300-01	2TLA070300R0100	332.16
SM2 button unit	Two-handed control unit, Emergency stop, etc.	70-300-02	2TLA070300R0200	413.02
SM3 Relay unit	Electrical connection providing a stop pulse.	70-300-03	2TLA070300R0300	1711.05
SM11 Flag unit	Ligh curtain, light beam	70-300-11	2TLA070300R1100	150.78
SM5/1250 Linear sensor	Linear movement, e.g. press tools	70-300-04	2TLA070300R0400	220.71
SM5/2500 Linear sensor		70-300-05	2TLA070300R0500	POA
SM7 Rotation sensor	Rotating motion, e.g. lathes, rollers	70-300-07	2TLA070300R0700	1770.05
SM13 Battery pack	Negative pole at the centre of the charging connector	70-300-23	2TLA070300R2300	1566.82
SM9 Carrying case	-	70-300-09	2TLA070300R0900	746.26
SM6	AC/DC converter for Smart	70-300-06	2TLA070300R0600	347.45
SM14	Charger for flag unit SM11 and battery pack SM13	70-300-24	2TLA070300R2400	174.82
USB cable	USB cable for communication with computer	70-300-15	2TLA070300R1500	70.37
Extension cables	ABB Jokab Safety's extension cables with 5 conductors ideal for all Smart accessories	70-300-01	2TLA020056R2000	137.68
		70-300-01	2TLA020056R2100	34.20
		70-300-01	2TLA020056R2200	15.95
		70-300-01	2TLA020056R2300	18.68
		70-300-01	2TLA020056R2400	22.94

Sensors and switches

Why you should use sensors and switches



- to supervise doors and hatches around dangerous machines!

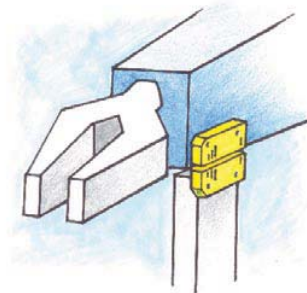
Assurance that a machine stops when a door or a hatch is opened can be solved by using different types of switches and sensors which are monitored with a safety relay or a safety PLC. Switches and sensors are available both as non-contact (dynamic or magnetic) and various types of interlocking devices. Interlocking devices can be used when it is required, via a signal, to lock a gate during processes that cannot be stopped during certain operations. They are also used with machines that have a long stopping time to prevent someone from entering before the machine has stopped.



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- to ensure that a position is reached!

The sensor monitors that the robot is standing still in a monitored position when someone enters the robot's working area. The robot is then only stopped by the program. If the robot leaves the position the power will be cut directly. This is used when the robot does not stop safely without restarting problems.



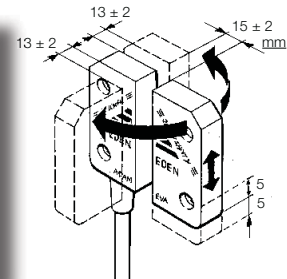
- to manage the safety in harsh environments!

Non-contact dynamic sensors have a long lifetime because they are not physically mechanically operated. They also endure very harsh environments, e.g. cold, heat, high-pressure wash-down which is important in the food industry for example. Because the sensors are small, they are very easy to position and can even be completely concealed in doors and hatches.



Sensors and switches

Eden - non contact safety sensor



Flexible mounting and
The ability to operate at long
distances.

A non-contact safety sensor for the highest safety level

Eden - Adam and Eva are a non-contact safety sensor for use on interlocked gates, hatches etc. A coded signal is transmitted from the control device Vital or from the safety PLC Pluto via Adam to Eva which modifies the signal and sends it back again. The maximum sensing distance between Adam and Eva is currently 15 mm ± 2 mm.

Up to 30 Edens can be connected in series to Vital and still achieve the same safety level in the safety circuit. It is also possible to connect safety light beams and E-stops in the same safety circuit.

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Adam is available with cable lengths up to 10 m and with M12 connectors. The LED on Adam provides indication of three different conditions, contact/non-contact between Adam and Eva and safety status. The same information is also available via the Adam connection cable. Eden E is available for harsh environments, as are Adam E and Eva E. Rapid blinking serves as an alignment aid. There are also coded versions, Eden C, Eden EC, Adam EC and Eva EC.

Applications

- Doors and hatches
- Position control
- Sector detection
- Slot detection

Technical data - general

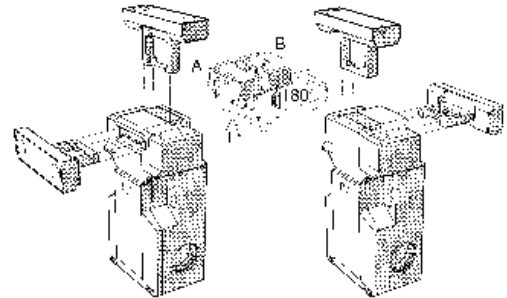


Description	
Safety level IEC/EN 61508-1...7 EN 62061 EN ISO 13849-1	SIL3 SIL3 cat. 4/PL e
Power supply	24VDC +15%-25%
Protection class Eden Eden E	IP67 IP69K
Detection distance max Adam/Eva 15 ± 2 mm Adam E/Eva E 12 ± 2 mm Hysteresis approx. 1 mm	Flash 2 mm before red position. Flash 2 mm before red position.
Metal may have influence on detection distance. This can be prevented by protection plates, DA1.	
Minimum distance to metal when there is metal on one or more sides.	Adam/Eva Adam E/Eva E One 0 mm 0 mm More 2,5 mm 0 mm
Minimum distance between Eden pairs	50 mm
Cable	3 or 10 m, ø 5.7mm, black, PVC 5 x 0.34mm ² + screen, UL 2464
Connector	M12: 5-pin male contact

Type	Part No	Product Hierarchy 4700006	
		Order Code	Price
Eva	20-046-00	2TLA020046R0000	POA
Eva E	20-046-06	2TLA020046R0600	POA
Adam M12	20-051-00	2TLA020051R0000	POA
Adam 3 m	20-051-02	2TLA020051R0200	POA
Adam 5 m M12	20-051-03	2TLA020051R0300	POA
Adam 10 m	20-051-04	2TLA020051R0400	POA
Adam 20 m	20-051-05	2TLA020051R0500	POA
Adam E 10 m M12	20-051-06	2TLA020051R0600	POA
Adam E 0.5 M12	20-051-07	2TLA020051R0700	POA
Adam E 20 m M12	20-051-08	2TLA020051R0800	POA
Adam E 1 m	20-051-09	2TLA020051R0900	POA
Eden C 10 m	20-051-14	2TLA020051R0400	POA
Eden EC 10 m	20-051-16	2TLA020051R0600	POA
Adam 0.5 m M12	20-051-20	2TLA020051R2000	POA

Sensors and switches

JSNY5 - safety interlock switch



After opening the snap-on cover, the head portion can be removed (version A), after turning the head through 180° (version B) it can be replaced onto the body of the switch and be locked into position by closing the snap-on cover. This ensures 4 actuating positions are possible.

Applications

- Gates
- Hatches

Switch operational description

JSNY5 offers three contacts which gives both the two contacts needed for high safety level as well as a contact for the indication of operating status.

The advanced design offers the choice of four operating positions from only two actuator entries by simply rotating the head through 180°.

However, when installed and in its working condition only one entry can be used, ensuring no other element can tamper with the switch function.

When mounting the switch from the front two elongated holes are provided to aid alignment with two set screw holes for accurate fixing. Top fixing is also possible.

Three cable entries allow for a variety of cabling options including through wiring.

Positive forced disconnected contacts

The design assures that the contacts will not fail or be held in a normally closed position, due to failure of the spring mechanism or the welding/sticking of the contacts.

Protection from unauthorised or incidental access

To avoid unauthorised operation the JSNY5 switch is manufactured using multicoding to GS-ET 15. The switch cannot be defeated by screwdrivers, magnets or any other mechanism.

Features

- 2 NC + 1 NO (actuator in)
- 4 actuating positions
- Actuator holding force 10 or 30 N

Safety level

The positive forced disconnect contacts gives a high safety level. By combining the JSNY 5 with one of our suitable safety relays as for example from the RT-series, the safety PLC Pluto or Vital (Tina) the requirements for both hatch and gate switch supervision can be fulfilled. To obtain the same level of safety as Eden, two switches per gate are required.

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Regulations and Standards

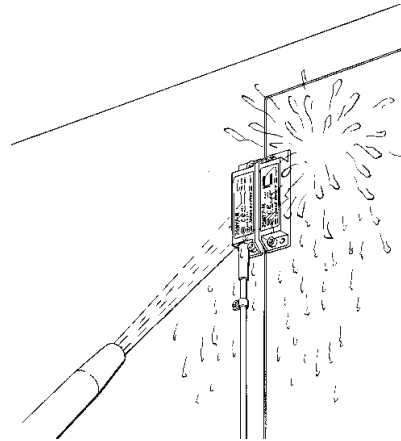
The JSNY5 is designed and approved in accordance with appropriate directives and standards. See technical data



Selection	Product Hierarchy 4700006	
	Order Code	Price
Part No		
JSNY5A holding force 10 N	2TLA020022R0000	28.30
JSNY5B holding force 30 N	2TLA020022R0100	43.27
JSNYN5 flexible key	2TLA020032R0600	30.82
Contacts (actuator key inserted)	2 NC + 1NO (NC are direct opening action)	

Sensors and switches

JSNY7 - magnetic switch



JSNY7 is resistant to both dirt and water.

Applications

- Gates
- Hatches
- Position control

Features

- Small size
- IP67

Switch operational description

The magnetic switch is designed to operate in dirty industrial environments and is certified to the highest level of safety regulation when working together with a suitable ABB Jokab Safety safety relay or Safety-PLC Pluto. The magnetic switch is small and resistant to both dirt and water, and has no dust collecting cavities making it useful in environments where hygiene is paramount. The small size of the switch makes it easy to position and hide on gates and hatches.

The magnetic switch has a long working life since no mechanical contact is made during operation.

Safety level

The JSNY7 is approved to the highest level of safety regulations, PL e according to EN ISO 13849-1 together with safety relay in the RT-series or Pluto PLC.

Regulations and Standards

The JSNY7 is designed and approved in accordance with appropriate directives and standards. See technical data.



Contacts

The magnetic switch has one closing and one opening contact. Both contacts have to be monitored. The contacts may be monitored by either the RT9 safety relay or other suitable relays in the new RT-series, i.e. RT6, RT9 or Safety PLC Pluto.

Protection from unauthorised or incidental access

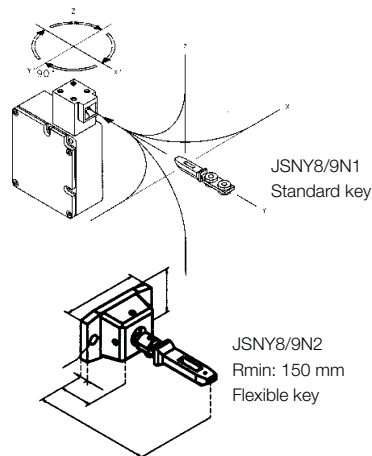
To avoid unauthorised operation of the JSNY7 switch it is only possible to actuate the JSNY7R with the coded magnet, JSNY7M. Other magnets, screwdrivers and tools have no effect on the switch contacts.

Selection

Part No	Product Hierarchy 4700006	
	Order Code	Price
JSNY7R-3 Magnetic switch 3m cable	2TLA020023R0000	30.82
JSNY7R-6 Magnetic switch 6m cable	2TLA020023R0100	23.05
JSNY7R-10 Magnetic switch 10 m cable	2TLA020023R0200	36.16
JSNY7M Magnetic switch	2TLA020024R0000	41.85
Supply voltage max	30 VDC	
Protection class	IP67	

Sensors and switches

JSNY8 - safety interlock switch



Applications

- Gates
- Hatches

Features

- Robust design
- Universal installation
- 2 NC + 2 NC outputs
- 1000 N actuator holding force

Description

The JSNY8 Safety Interlock Switch, in conjunction with the machine control system, enables gates/movable guards etc to be locked in their protective positions, thus preventing access to machinery until dangerous operations have ceased.

Applications include:

- processes which cannot be interrupted, such as welding.
- machinery with a long stopping procedure, such as paper machinery that requires a long braking operation.
- prevention of unauthorised access to a particular area.

The JSNY8 has 2 NC + 2 NC positive force disconnection contacts. The first pair closes when the actuator key is pushed into the head. The other pair closes when the locking mechanism is in the locked position. The head can be set in four positions, thus providing the safety device with four different operating positions. These are selected by twisting the head as shown in the diagram above. The leading edges of the actuator key are reinforced and bevelled in order to guide it properly into the hole. The JSNY8 is encased in a robust metal housing (IP67) providing a high level of protection to the internal operating components.

Two versions

The JSNY8 is available in two basic versions, either with a spring lock or a magnetic lock.

In the spring lock (JSNY8S) version, the locking mechanism moves into the locked position directly when the door is closed and the actuator key is pushed into the lock. The actuator key can only be released and the gate opened by supplying operational voltage to the solenoid (E1-E2).

The JSNY8S also has a emergency 'unlocking' facility to enable the actuator key to be released without the energisation of the solenoid (E1-E2).

In the magnetic lock (JSNY8M) version, the locking mechanism is only in the locked position when the solenoid (E1-E2) is supplied with operating voltage. Release of the actuator key is only possible when the operating voltage is removed from the solenoid (E1-E2).

Optional features

The following optional features are available:

- actuator to operate at smaller radius.
- customer specific applications.

Safety level

The JSNY8 has double forced disconnection contacts to the actuator key and the locking mechanism. The actuator key has a triple coding design. To achieve maximum safety level in the connection to the machine's control system, it is recommended that the JSNY8 is monitored by an appropriate ABB Jokab Safety safety relay, Pluto safety-PLC or Vital. To obtain the same level of safety as Eden, two switches per gate are required.

Regulations & standards

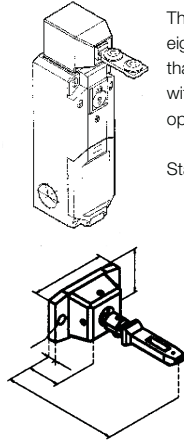
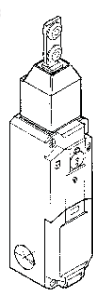
The JSNY8 is designed and approved in accordance with appropriate directives and standards. See technical data.



Selection	Product Hierarchy 4700006	
	Order Code	Price
Part No		
JSNY8M 24DC	2TLA020030R0000	45.67
JSNY8S 24DC	2TLA020030R0100	10.46
JSNY8S 230AC	2TLA020030R0500	225.08
JSNY8M 230AC	2TLA020030R1500	236.01
JSNY8/9N1 standard key	2TLA020032R0400	236.01
JSNY8/9N2 flexible key	2TLA020032R0500	225.08
Enclosure	Metal housing	
Actuator holding force	1000 N	
Contacts		
actuator key inserted	2 NC	
locking mechanism, locked position	2 NC	
Enclosure class	IP67	
Operating voltage	24V DC, 230 V AC	

Sensors and switches

JSNY9 - safety interlock switch



The control unit offers eight operating positions that provide the actuator with eight different input options.

Standard key.

JSNY8/9N2
Rmin: 150 mm
Flexible key

Applications

- Gates
- Hatches

Features

- Compact and robust
- Universal installation
- 2x(1NO+1NC)
- Actuator holding force 1500 N
- Eight head configurations
- LED status indication (optional)



Description

The JSNY9 is used for locking a gate/hatch, to prevent access to machinery, until hazardous operations have ceased.

Applications include:

- processes which cannot be interrupted, e.g. welding.
- machinery with a long stopping time, e.g. paper machinery which requires a long braking operation.
- prevention of unauthorised access to a particular area.

The JSNY9 is equipped with a 2 x (1NO + 1 NC) contact configuration, the first pair of contacts changeover when the key is inserted. The second pair of contacts changeover when the locking mechanism is in the locked position.

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The JSNY9 switch is encased in a robust plastic housing and can be mounted either horizontally or vertically. The advanced design of the head provides eight possible key insertion options, this is achieved by mounting the head either vertically or horizontally on the base unit, as shown in the diagram. The location for the actuator key is reinforced and bevelled to ensure a smooth operation.

Two versions

The JSNY9 switch is available in two basic versions, either with a spring lock or an electro-magnetic locking mechanism.

The JSNY9S (spring lock) switch operates immediately when the gate/hatch is closed, i.e. when the key actuator is inserted into the locking mechanism. The gate/hatch can be opened and the actuator key released only by supplying the operational voltage to the solenoid connections (E1 E2). The JSNY9S also has a manual emergency unlocking facility to enable authorised release of the actuator key.

In the JSNY9M (magnetic lock) version, the mechanism is only locked when the gate/hatch is closed i.e. the actuator key inserted and the solenoid (E1 E2) supplied with the operating voltage. The gate/hatch can only be opened when this operating voltage is removed

Optional features

The following optional features are available:

- LED display, indicating the status of the actuator key, locking mechanism and contacts.
- Actuator to operate at smaller radii.
- Customer specific applications.

Safety level

In order to achieve a high safety level, the JSNY9 switch is equipped with dual sets of contacts operated with a coded actuator key. In order to meet the required installation safety level it is recommended that the JSNY9 safety switch is monitored by an appropriate ABB Jokab Safety safety relay. To obtain the same level of safety as Eden, two switches per gate are required.

Regulations & standards

The JSNY9 is designed and approved in accordance with appropriate directives and standards. See technical data.

Selection	Product Hierarchy 4700006	
	Order Code	Price
Part No		
JSNY9S 24V DC	2TLA020036R0100	19.23
JSNY9LA 24V UC	2TLA020036R0200	44.47
JSNY9M 24V UC	2TLA020036R2100	150.78
JSNY9MLA 24V UC	2TLA020036R3200	175.92
JSNY9LA 24V UC	2TLA020036R0200	44.47
Enclosure	Metal housing	
Actuator holding force	1500 N	
Contacts actuator in	1 NO + 1 NC	
Locking mechanism in locked position	1 NO + 1 NC (NC are direct opening action)	
Enclosure class	IP67	
Operating voltage	24 V AC/DC	

Sensors and switches

Magne - magnetic lock with indication



TÜV Nord **CE**

Magnetic lock with indication

Magne is a magnetic lock that is designed for industrial applications and that can withstand harsh environments. As it is designed with no moving parts, it is durable and long lasting. Magne, with its electro-magnet, keeps a door locked with a holding force up to 1,500 N and also magnetic material does not attach to the magnetic surface when the power is off.

Use of M12 connectors makes it easy to connect several Magne units and Eden sensors in series enabling control and monitoring by either a Pluto safety PLC or a Vital safety controller. Via the connection cable it is also possible to obtain an indication signal informing if the Magne unit is locked or not.

Accessories:

- Mounting kit for conventional door, with fitting and screws for assembly on ABB Jokab Safety Quick-Guard fencing system (5-15 mm door gap)
- Plastic handle
- Handle profile for mounting on a hinged door with ABB Jokab Safety's Quick-Guard fencing system (5-15 mm door gap).



Magne is easy to assemble, adjust and dismantle in and out of the T-slot of the Quick-Guard fencing system.

Applications

- Electrical locking of doors and hatches to production applications that are sensitive to unintentional/unnecessary interruptions.
- For safety supervision the Magne 2 has an integrated Eden.

Features

- No moving parts
- Strong Magnetic holding force: 1500N
- Can stand and operate in harsh environments
- Locked/unlocked indication. Possible to connect in series with Eden sensors
- No current peaks on activation
- Magne 2 in combination with a handle profile provides a complete door solution

Selection

		Product Hierarchy 4700006	
Part No	Description	Order Code	Price
Magne 1A	Process lock, Incl. anchor plate	2TLA042022R0000	156.25
Magne 2A	Process lock with built-in Eden, incl. anchor plate	2TLA042022R1000	181.38
Magne 1B	Process lock incl. anchor plate with built-in permanent magnet (30 N)	2TLA042022R0100	175.92
Magne 2B	Process lock incl. anchor plate with built-in Eden and built-in permanent magnet (30 N)	2TLA042022R1200	111.45
Magne 2Ax	Process lock with built-in Eden and 5-pin M12 connector for Urax, incl. anchor plate	2TLA042022R1300	181.38
Magne 2Bx	Process lock with built-in Eden and 5-pin M12 connector for Urax, incl. anchor plate with built-in permanent magnet (30 N)	2TLA042022R1400	111.59

Accessories

JSM D21B	Assembly kit for anchor plate	2TLA042023R0100	186.84
	Handle profile for Magne	2TLA042023R0200	187.02
JSM D23	Fixture for sliding door	2TLA042023R0300	193.19
JSM D24	Assembly kit for Eva	2TLA042023R0400	70.56
	Anchor plate with permanent magnet	2TLA042023R1000	POA
	Handle for JSM D21B	2TLA042023R1000	POA

Sensors and switches

Dalton - process lock



Applications

- Doors
- Hatches

Advantages

- Small and robust
- Integrated with Eden
- Flexible installation
- High enclosure classification – IP 67
- Withstands severe environments
- Low current consumption
- Status information with LED on the lock housing and in the cable connection.

Dalton – the intelligent process lock

Dalton is a locking unit that is intended for use in preventing unnecessary process stoppages, i.e. it is not a safety lock. It can be used either as a free-standing lock or integrated with Eden as a safety sensor. In the unlocked state the door is held closed by a ball catch and in locked state the balls are mechanically blocked so the lock tongue can not be pulled out. If necessary, the holding force of the ball catch can be adjusted. The device only allows to lock when the ball latch is centred around the lock tongue, and when Eva is with Adam (depending on version). When an input is supplied with voltage, the ball catch is locked.

7

Dalton is easily connected with an M12 connector. The Tina junction block can be used for distribution of both the safety and locking functions. The Dalton status is indicated by LEDs and can also be read by a PLC via the information output.

Dalton has a modular structure

The Dalton process lock has a modular structure and can be combined in different ways depending on position, installation and function. You choose the lock housing, lock tongue and fixing plate yourself to create a complete Dalton.

Installation

Dalton offers many different installation possibilities as the lock tongue may enter the ball catch from three directions. In order to ensure that Dalton works without any problems, the ball catch must be resting, i.e. the balls not pressed in by the lock tongue when the door is in closed position. Dalton's brackets are therefore made to ensure easy adjustment of the lock tongue and ball latch positions.

Selection

Description

Locking function M - Locked when energised L - Only ball latch

Operating voltage 24 VDC +25/-20%

Enclosure classification IP67

Holding force Unlocked 25-100 N Locked 2000 N



Dalton is easy to install, adjust and dismantle in the Quick-Guard fence system's T-slots.

Sensors and switches

Knox - safety lock



Knox is easy to assemble, adjust and dismantle in and out of the T-slot of the Quick-Guard fencing system.

Applications

- Safe locking of door to a cell/line with long stopping time.
- Prevents unintentional interrupts of processes

Advantages

- Double locking function as specified in PL e/ cat. 4 (EN ISO 13849-1)
- Withstands harsh environments
- Status information with LEDs on the lock and at cable connection
- Controlled to locked and unlocked positions-position remains in the event of power failure
- Electronic connection only on the door frame
- Robust design

Knox - double safety lock

Knox is a double lock that complies with the highest safety level (two lock cylinders with monitored positions) that can be used both as a safety and process lock. The locking function is electrically controlled and is bi-stable, i.e. it retains its position (unlocked/locked) in the event of a power failure. Dual signal for unlocking is safe at both short-circuits and cable breaks.

The handles operate as they would on a normal door but the exterior handle also have a reset function, why a separate reset

button is not necessary and the interior handle that can be used for emergency opening also in locked state. The design and durability of the lock mean that it is ideal for harsh environments as the sensors are non-contact and the lock is manufactured of stainless steel. Knox is available in a number of adaptations such as left-hung door, right-hung door, inward and outward opening, with manual unlocking and for sliding door.

Selection

Description	Part No	Product Hierarchy 4700006	
		Order Code	Price
Knox door part for inward-opening right-hung door	Knox 1B-R v2	2TLA020105R5200	147.33
Knox door part for inward-opening left-hung door	Knox 1B-L v2	2TLA020105R5300	POA

Accessories

Distribution block for two Knox	Tina 12A	2TLA020054R1800	POA
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Sensors and switches

Knox - safety lock



Knox door part 1A-R and frame part 2A



Knox door part 1A-L and frame part 2A



Knox door part 1B-R and frame part 2A



Knox door part 1B-L and frame part 2A



Knox door part 1F-R and frame part 2A

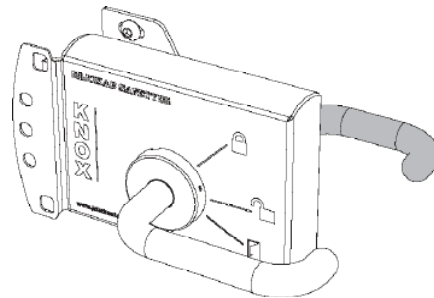


Knox door part 1F-L and frame part 2A

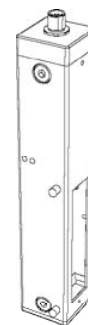
Models and ordering data

		Product Hierarchy 4700006	
Door part		Order Code	Price
Knox 1B-R v2	Knox door part for inward-opening right-hung door	2TLA020105R5200	147.33
Knox 1B-L v2	Knox door part for inward-opening left-hung door	2TLA020105R5300	POA
Knox 1AX-R v2	Knox door part for outward-opening right-hung door with the option for manual unlocking from the outside	2TLA020105R5800	POA
Knox 1AX-L v2	Knox door part for outward-opening left-hung door with the option for manual unlocking from the outside	2TLA020105R5900	POA
Knox 1F-R v2	Knox door part for sliding door that opens to the right. Incl. additional fastening fixtures for the frame.	2TLA020105R6000	POA
Knox 1F-L v2	Knox door part for a sliding door that opens to the left. Incl. additional fastening fixtures for the frame.	2TLA020105R6100	POA
Knox 1BX-R v2	Knox door part for inward-opening right-hung door with the option for manual unlocking from the outside	2TLA020105R6200	POA
Knox 1BX-L v2	Knox door part for inward-opening left-hung door with the option for manual unlocking from the outside	2TLA020105R6300	POA
Knox 1FX-R v2	Knox door part for sliding door that opens to the right with the option for manual unlocking from the outside. Incl. additional fastening fixtures for the frame.	2TLA020105R6400	POA
Knox 1FX-L v2	Knox door part for sliding door that opens to the left with the option for manual unlocking from the outside. Incl. additional fastening fixtures for the frame.	2TLA020105R6500	POA
Frame part			
Knox 2X v2	Knox process lock, no duplicate unlocking signal, with 5-pin M12 contact	2TLA020105R2300	POA
Accessories			
Tina 12A	Distribution block for two Knox	2TLA020054R1800	POA

7



Door part Knox1



Frame part Knox 2

Control devices

Why you should use control devices

for the machine operator to be able to directly start and stop dangerous machine movement

Three-position device

Three-position devices, hold-to-run devices and enabling devices are used during trouble-shooting, programming and test running when no other safety components are possible or suitable. The device is held in the hand and the operator can in an emergency situation either press harder or entirely release the device to stop the machine.



In an emergency situation the operator can either press harder or release the three-position device to stop the machine.

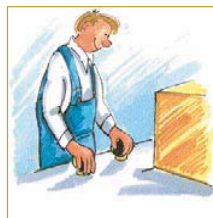


Two hand control device

A two-hand control device is used when it must be guaranteed that the operator's hands will be kept outside the risk area. If there is a risk that someone else other than the operator can reach into the machine without the operator seeing it, the safety device must be supplemented by something more, e.g. a light beam.

To be able to operate the machine with the two-hand device, all the buttons on the device have to be operated within 0.5 seconds of each other. This is called concurrence. All the buttons also have to be returned to their initial position before one can start again. If any button is released during the machine movement the machine will be stopped. Using the stopping time one can calculate the necessary safety distance. A safety distance of less than 100 mm must not be used.

The highest safety level is assured by connecting the buttons of the two-hand device to a safety relay. The safety relay checks for concurrence and that all the buttons have returned to their initial position before a new start can be made. The safety relay also gives a stop signal if any of the buttons are released.



The two-hand device protects against "after-grasp"; if the operator by reflex tries to enter or reach into a machine during the dangerous machine movement.



7

Foot operated switches

A foot operated switch is used when the operator has to hold the material during processing. The pedal must have a safety cover to prevent unintentional start. For seated work one must also have a foot support to facilitate the operator holding his foot on the pedal's off position.

The highest safety level is secured by monitoring the pedal with a safety relay.



The foot operated switch is used when the operator has to hold the material with both hands during processing.

Control devices

JSHD4 three position devices



Applications

- Troubleshooting
- Test running
- Programming

Advantages

- Ergonomic
- LED information
- Adaptable
- Cheat Safe
- Adapted for AS-i

Pre-assembled three position devices

Selection

Part No	Product Hierarchy 4700007	
	Order Code	Price
JSHD4-1AA	2TLA019995R0000	POA
JSHD4-1AC	2TLA019995R0100	POA
JSHD4-2AB	2TLA019995R0200	POA
JSHD4-2AB-A	2TLA019995R0300	POA
JSHD4-2AD	2TLA019995R0400	POA
JSHD4-2AD-A	2TLA019995R0500	POA
JSHD4-2AF	2TLA019995R0600	POA
JSHD4-2AF-A	2TLA019995R0700	POA
JSHD4-2AH	2TLA019995R0800	POA
JSHD4-2AH-A	2TLA019995R0900	POA
JSHD4-3AB	2TLA019995R1200	POA
JSHD4-3AB-A	2TLA019995R1300	POA
JSHD4-3AD	2TLA019995R1400	POA
JSHD4-3AD-A	2TLA019995R1500	POA
JSHD4-3AE	2TLA019995R1600	POA
JSHD4-3AF	2TLA019995R1700	POA
JSHD4-3AF-A	2TLA019995R1800	POA
JSHD4-3AG	2TLA019995R1900	POA
JSHD4-3AH	2TLA019995R2000	POA
JSHD4-3AH-A	2TLA019995R2100	POA
JSHD4-4AB	2TLA019995R2400	POA
JSHD4-4AB-A	2TLA019995R2500	POA
JSHD4-4AD	2TLA019995R2500	POA
JSHD4-4AD-A	2TLA019995R2700	POA
JSHD4-4AF	2TLA019995R2800	POA
JSHD4-4AF-A	2TLA019995R2900	POA
JSHD4-4AH	2TLA019995R3000	POA
JSHD4-4AH-A	2TLA019995R3100	POA
JSHD4-5AB	2TLA019995R3400	POA
JSHD4-5AB-A	2TLA019995R3500	POA
JSHD4-5AD	2TLA019995R3600	POA
JSHD4-5AD-A	2TLA019995R3700	POA
JSHD4-5AF	2TLA019995R3800	POA
JSHD4-5AF-A	2TLA019995R3900	POA
JSHD4-5AH	2TLA019995R4000	POA
JSHD4-5AH-A	2TLA019995R4100	POA



Control devices

JSHD4 design a three position device for your needs

1. Choose between five different top units



JSHD4-1

JSHD4-2

JSHD4-3

JSHD4-4

JSHD4-5

2. Choose a bottom part suitable for your assembly



AA, AH, AJ

AB

AC, AD

AF, AG

AE

1. Choose between five different top units

Product Hierarchy 4700007

Description	Order Code	Price
JSHD4-1	2TLA020006R2100	POA
JSHD4-2 LEDs, front button, top button	2TLA020006R2200	POA
JSHD4-3 LEDs	2TLA020006R2300	POA
JSHD4-4 LEDs, front button	2TLA020006R2400	POA
JSHD4-5 LEDs, top button	2TLA020006R2500	POA

2. Choose a bottom part suitable for your assembly

AA – with cable gland	2TLA020005R1000	POA
AB – with Cannon connection	2TLA020005R1100	POA
AC – with M12 connection (5 poles)	2TLA020005R1200	POA
AD – with M12 connection (8 poles)	2TLA020005R1300	POA
AE – with M12 connection (8 poles) and emergency stop	2TLA020005R1400	POA
AF – with M12 connection (4 poles) and 2 AS-i nodes (for front and top button)	2TLA020005R1500	POA
AG – with M12 connection (4 poles) and 1 AS-i node (without front and top button)	2TLA020005R1600	POA
AH – with cable gland and PCB with 10 screw connections	2TLA020005R1700	POA
AJ – with cable gland and PCB with 16 screw connections	2TLA020005R1800	POA

3. Choose hand recognition for making your three position device cheat protected (option)

Anti-tamper PCB	2TLA020005R0900	POA
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4. Choose a bottom plate (option)

JSM50G, bottom plate for Safety Interlock switch JSNY5	2TLA020205R6300	POA
JSM50H, bottom plate for non-contact sensor Eden (Eva)	2TLA020205R6400	POA



3 2TLA020005R0900



4 2TLA020205R6300



4 2TLA020205R6400

Control devices

JSHD4 combination and accessories

Available combinations of bottom - and top parts

Type	Function	JSHD4-1	JSHD4-2	JSHD4-3	JSHD4-4	JSHD4-5
AA	without Cheat Safe	JSHD4-1AA	-	-	-	-
	with Cheat Safe	-	-	-	-	-
AB	without Cheat Safe	-	JSHD4-2AB	JSHD4-3AB	JSHD4-4AB	JSHD4-5AB
	with Cheat Safe	-	JSHD4-2AB-A	JSHD4-3AB-A	JSHD4-4AB-A	JSHD4-5AB-A
AC	without Cheat Safe	JSHD4-1AC	-	-	-	-
	with Cheat Safe	-	-	-	-	-
AD	without Cheat Safe	-	JSHD4-2AD	JSHD4-3AD	JSHD4-4AD	JSHD4-5AD
	with Cheat Safe	-	JSHD4-2AD-A	JSHD4-3AD-A	JSHD4-4AD-A	JSHD4-5AD-A
AE	without Cheat Safe	-	-	JSHD4-3AE	-	-
	with Cheat Safe	-	-	-	-	-
AF	without Cheat Safe	-	JSHD4-2AF	JSHD4-3AF	JSHD4-4AF	JSHD4-5AF
	with Cheat Safe	-	JSHD4-2AF-A	JSHD4-3AF-A	JSHD4-4AF-A	JSHD4-5AF-A
AG	without Cheat Safe	-	-	JSHD4-3AG	-	-
	with Cheat Safe	-	-	-	-	-
AH	without Cheat Safe	-	JSHD4-2AH	JSHD4-3AH	JSHD4-4AH	JSHD4-5AH
	with Cheat Safe	-	JSHD4-2AH-A	JSHD4-3AH-A	JSHD4-4AH-A	JSHD4-5AH-A



JSHK0 12 pole connector for JSHD4.



Cable, available in different lengths.



Spiral cable, available in different lengths.



JSM55 Wall bracket for three-position device.



JSM5B Wall bracket for interlock switches and three-position device.



JSHD4 protection coat



Cable drum

Accessories

Selection

Description

M12-C01 M12 5-pole female, straight

M12-C03 M12 8-pole female, straight

JSHK0 12-pole connector for JSHD4

Product Hierarchy 4700007

Description	Order Code	Price
M12-C01 M12 5-pole female, straight	2TLA020055R1000	POA
M12-C03 M12 8-pole female, straight	2TLA020055R1600	POA
JSHK0 12-pole connector for JSHD4	2TLA020003R0300	POA

Cable with 5 conductors:

C5 Cable 5x0,34 cut to length	2TLA020057R0000	POA
C5 Cable 5x0,34 cut to length	2TLA020056R1000	POA
C5 Cable 5x0,34 cut to length	2TLA020056R1400	POA
C5 Cable 5x0,34 cut to length	2TLA020057R1000	POA
C5 Cable 5x0,34 cut to length	2TLA020056R4000	POA
C5 Cable 5x0,34 cut to length	2TLA020056R4100	POA

Cable with 12 conductors:

HKC12 Cable 12x0,25 cut to length	2TLA020003R5500	POA
HKC12 Cable 12x0,25 cut to length	2TLA020003R4700	POA
HKC12 Cable 12x0,25 cut to length	2TLA020003R4800	POA
HKC12 Cable 12x0,25 cut to length	2TLA020003R4900	POA
HKC12 Cable 12x0,25 cut to length	2TLA020003R5000	POA
HKC12 Cable 12x0,25 cut to length	2TLA020003R5100	POA
HKC12 Cable 12x0,25 cut to length	2TLA020003R5200	POA
HKC12 Cable 12x0,25 cut to length	2TLA020003R3500	POA
HKC12 Cable 12x0,25 cut to length	2TLA020003R3600	POA
HKC12 Cable 12x0,25 cut to length	2TLA020003R5300	POA
HKC12 Cable 12x0,25 cut to length	2TLA020003R5400	POA

Brackets:

JSM55 Wall bracket for three position device	2TLA040005R0500	POA
JSM5B Wall bracket for 2 JSNY5 (ordered separately)	2TLA040005R0700	POA

Other:

JSHD4 protection coat	2TLA020200R4600	POA
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7

Control devices

Safeball™ one and two hand devices



Applications

- Presses
- Punches
- Fixtures
- Shearing machines

Advantages

- Ergonomic
- Low activation force
- Flexible mounting
- Several grip possibilities
- Highest safety level
- Two channel switching in each hand

SAFEBALL™

Unique world wide two hand device

Safeball™ consists of a spherical ball containing two embedded pushbutton switches, one on each side of the ball. By using this pushbutton configuration, the risk of unintentional activation is minimised and the device is simple and ergonomic to use.

Safeball™ can be utilised for either One hand (one Safeball™) or Two hand (two Safeballs™) applications. In either application, and in order to meet the required level of safety, the Safeball™ switches are monitored by specified/certified ABB Jokab Safety relays.

In the case where Two hand control is used, both Safeballs™ i.e. all four pushbuttons have to be activated within 0.5 seconds. If one or more pushbuttons are released a Stop signal is given to the machine. In order to provide the highest level of safety the Safeball™ design provides the operator with a dual switching function and short-circuit supervision in each hand.

Each Safeball™ is ergonomically designed and has both its cover and actuator made of environmentally-friendly polypropylene. The design allows for comfort of use for all hand sizes and operation from numerous gripping positions. Mounting of the Safeball™ is also very flexible allowing the device to be mounted in the most ergonomic position for the operator.

When can a two hand or one hand control be used ?

A Two hand control can be used when it is necessary to ensure that the operator is outside and must be prevented from reaching into the hazardous area. If the operator decides, after the start signal has been given to the machine, to make an 'after-grasp' i.e. try to adjust the part that has been placed into the machine, then a dual stop signal is given to the machine.

A one hand control device can be used when the operator cannot reach the hazardous area with his/her free hand or on less dangerous machines.

Highest safety level

The Safeball™ is certified by Inspecta in Sweden for use as a Two hand control device, when used with a JSBR4 ABB Jokab Safety Safety relay or Pluto Safety-PLC, in accordance with the highest safety level in standard EN 574 (type IIIc).



Two hand device adapted for AS-i

The two hand device, Safeball also comes in a version adapted for direct attachment to the AS-i bus.

Selection	Product Hierarchy 4700007	
	Order Code	Price
Description		
JSTD1-A Safeball 1 NO + 1 NC with 2 m cable	2TLA020007R3000	POA
JSTD1-B Safeball Safeball 1 NO + 1 NC with 0.2 m cable	2TLA020007R3100	POA
JSTD1-C Safeball 1 NO + 1 NC with 10 m cable	2TLA020007R3200	POA
JSTD1-E Safeball 2 NO 0,2 m cable	2TLA020007R3400	POA
Protection class: IP67. Not intended for use under water		

Control devices

Safeball™ JSTD25 two hand devices



Applications

- Presses
- Punches
- Fixtures
- Shearing machines

Advantages

- Ergonomic
- Low activation force
- Flexible mounting
- Several grip possibilities
- Highest safety level
- Two channel switching in each hand

With a JSTD25 two hand control station you have a prepared two hand unit that is easy to install, while utilising the good ergonomics of the Safeball. There are several variants to meet differing needs. All versions meet EN 574, EN 954-1 and EN 13849-1 and are supplied with the internal connections made, to simplify installation.



Selection

Description	Part No	Product Hierarchy 4700007	
		Order Code	Price
JSTD25 for fixed installation			
2 Safeball control station	JSTD25A	2TLA020007R5000	POA
2 Safeball control station, JSMC5	JSTD25D	2TLA020007R5300	POA
2 Safeball control station and emergency stop button	JSTD25B	2TLA020007R5100	POA
2 Safeball control station JSM C5 and emergency stop button	JSTD25E	2TLA020007R5400	POA
JSTD25 for mobile installation			
2 Safeball control station, 5 pole M12 connection	JSTD25F	2TLA020007R6000	POA
2 Safeball control station, 8 pole M12 connection	JSTD25H	2TLA020007R6300	POA
As JSTD25F but can be customised	JSTD25G	2TLA020007R6200	POA
JSTD25 for mobile installation with built in Edsen sensor			
2 Safeballs mounted on the ends, shield over hand guards built-in Eva sensor for position control	JSTD25P-1	2TLA020007R6500	POA
Accessories - JSTD25			
Stand with spacer ring for JSTD25 A-E (JSTS30 without spacer ring). Height 850 to 1100mm	JSTS31	2TLA020007R4100	POA
Angled ball joint for installation of a Safeball on a table or a steel housing	JSM C5	2TLA020007R0900	POA
4 m long spiral cable for JSTD25P-1	JSTK40S	2TLA020007R6700	POA
8 m long spiral cable for JSTD25P-1	JSTK80S	2TLA020007R6800	POA

Control devices

FOX foot operated safety switches



Features

- Control device that frees the hands
- Three-position pedal
- High safety level
- Robust

In order to fulfil the need for a small and easy to install E-stop, Smile has been developed. The size of the device makes it possible to be installed wherever you want. With M12 connections or cable and centralised mounting holes Smile is very easy to install, especially on aluminium extrusions. Smile is available for E-stops in both dynamic and static safety circuits i.e. for interfacing to Vital system/Pluto safety PLC and Safety relays. Each version is available with either one or two M12 connections or cable. Two M12 connectors are used to enable the connection of E-stops in series, which is often used with dynamic safety circuits fulfilling safety category 4. In the top of the Smile Tina E-stop unit, LEDs show the actual status according to the dynamic system:
Green = everything is OK, Red = E-stop activated.
Flashing Red/Green = Stop activated from another preceding device.
Smile is also available with black push button and used as a safety stop. See section on safety stops.

Three-position function, Fox 31/32

A safe three-position foot operated device means that:

1. Stop signals are provided in the top and bottom positions.
2. Start/ready signals for separate starting are provided in a distinct middle position.
3. After a stop in the bottom position a start or clear signal cannot be given before the reset knob has been operated and then the pedal pushed into its middle position.

Two-position function, Fox 21/22

A two-position foot operated device means that:

1. A stop signal is provided in the top, or pedal released, position.
2. A start/ready signal for separate starting is given in the bottom, or fully depressed, position

Safety cover protects against unintentional actuation. A robust metal safety cover prevents unintentional machine start by a person or falling objects, thereby fulfilling the standards which demand this. The robust aluminium safety cover can withstand harsh environments.

Safety level

A high safety level is secured by monitoring the pedal's double contacts with one of our safety relays. Furthermore the third 'emergency' position of the Fox 31/32 pedal enhances safety.

Selection

Description	Part No	Product Hierarchy 4700007	
		Order Code	Price
FOX 21 Two position single footswitch	20-160-21	2TLA020007R5000	POA
FOX 22 Two position double footswitch	20-160-22	2TLA020007R5300	POA
FOX 31 Three position single footswitch	20-160-01	2TLA020007R5100	POA
FOX 32 Three position double footswitch	20-160-02	2TLA020007R5400	POA

Emergency stops

Why you need emergency stops



So that anyone is able to stop a machine during a malfunction or if someone is in danger

How do I recognise an E-stop?

E-stop buttons shall according to relevant standards be red with a yellow background. An emergency stop grab wire shall be red for high visibility. A sign that indicates the location of the E-stop shall be green with a white picture and possibly with text in the local country's language.

How shall an E-stop stop the machine?

An E-stop shall stop the machine as quickly as possible. To obtain a quick stop one either removes the power directly or one lets a frequency converter 'run down' and afterwards after a little delay, remove the power. An E-stop shall not create other hazards. Therefore a risk analysis must be made for the E-stop to be correctly connected.

7

Requirements for E-stops are stated in the following standards and regulations

2006/42/EC The Machinery Directive

Clause 1.2.4.3 in Annex 1 gives requirements for the emergency stop function for new machines). See also clause 1.2.2 Control devices. (see chapter "Standard and Regulations")

Council Directive 89/655/EEC (with amendments) concerning the minimum safety and health requirements for the use of work equipment by workers at work

Clause 2.4 gives the requirements for the emergency stop function for older machines. See also clause 2.1. (see chapter "Standard and Regulations")

EN ISO 13850 Safety of machinery - Emergency stop Principles for design

A harmonized standard that gives technical specifications for the requirements in the Machinery Directive. Could also be used for older machinery.

EN 60204-1 Safety of Machinery - Electrical equipment of machines – Part 1: General requirements.

Harmonized standard that gives requirements for the electrical equipment of machinery including the emergency stop actuator/function. See clauses 9.2.2 and 9.2.5.4.2.

Emergency stops

Inca1 & Inca1 Tina emergency stops for enclosures



Advantages

- Terminal blocks
- Emergency push button up to cat. 4/PL e acc. to EN ISO 13849-1
- Only 53 mm's construction depth
- Push button IP65, connector IP20
- Available as safety stop (black pushbutton)
- With LED info in print
- With LED info in push button (Inca1 Tina)
- Info output (Inca1 Tina)

Inca1 is an emergency stop designed for installation in 22.5 mm holes on cabinets. "INCA 1" has potential free contacts for connection to safety relays. The connection is made in cabinets via a removable terminal which also have excellent measuring points. Inca 1 is also available with a black pushbutton and used as a safety stop.

Inca1 Tina is also available with electronic adjustment of the dynamic safety loop for connection to the Vital and Pluto units. The connection is made in equipment cabinets via a removable terminal block which also has marked measuring points. Inca 1 Tina is also available with black push button and is used in this case as a safety stop.



Selection

Description	Part No	Product Hierarchy 4700008	
		Order Code	Price
INCA 1	30-054-01	2TLA030054R0100	POA
INCA 1 Tina	30-054-00	2TLA030054R0000	POA
INCA 1S	30-054-03	2TLA030054R0300	POA
INCA 1S Tina	30-054-02	2TLA030054R0200	POA
Mounting:	22,5mm diameter		
Operating voltage (LED):	INCA 1: 24 VDC INCA 1 Tina: 24VDC +15% -25%		

Emergency stops

Smile emergency stops with LED



Advantages

- Emergency push button up to cat. 4/PL e acc. to EN ISO 13849-1
- Robust
- Push button IP65, enclosure IP67
- Available as safety stop (black pushbutton)
- With LED info in push button



Smile

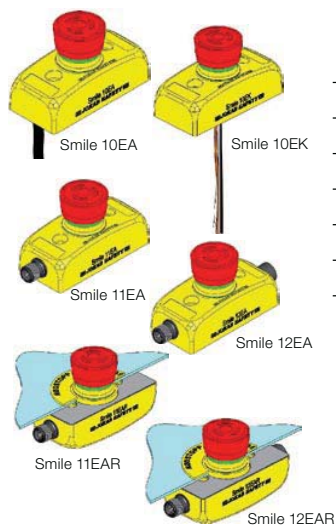
small and cost effective E-stop

In order to fulfil the need for a small and easy to install E-stop, Smile has been developed. The size of the device makes it possible to be installed wherever you want. With M12 connection/s or cable and centralised mounting holes Smile is very easy to install, especially on aluminium extrusions. Smile is available for E-stops in both dynamic and static safety circuits i.e. for interfacing to Vital/Pluto and Safety relays. Each version is available with either one or two M12 connections or cable. At the top of Smile, a LED shows the current status as: green = protection OK, red = this emergency stop has been pressed and if the LED is off, an emergency stop earlier in the loop has been actuated. Smile is also available with black push button and is used as a safety stop. See section on safety stops.

Smile emergency stop has six different variants:

1. Smile 10EA has a 1 m cable connected through the base of the unit.
2. Smile 10EK has four 1 m short connecting leads through the base of the unit. No LED.
3. Smile 11EA has a five-pole M12 connector on one end of the unit.
4. Smile 12EA has two five-pole M12 connectors, one on each end of the unit.
5. Smile 11EAR has one 5-pole M12 connector at one end.
6. Smile 12EAR has two 5-pole M12 connectors at each end.

7



Selection

Description	Part No	Product Hierarchy 4700008	
		Order Code	Price
Smile 10EA with 1 m cable	30-051-04	2TLA030051R0400	POA
Smile 10EK with short connecting leads (No LED connection)	30-051-06	2TLA030051R0600	POA
Smile 11EA with M12 male connector	30-051-00	2TLA030051R0000	POA
Smile 12EA with male and female M12 connectors	30-051-02	2TLA030051R0200	POA
Smile 11EAR	30-051-01	2TLA030051R0100	POA
JST2 termination for Smile 12	-	2TLA030051R1300	POA

Emergency stops

Smile Tina emergency stops with LED



Advantages

- Emergency push button up to cat. 4/PL e acc. to EN ISO 13849-1
- Light grids, emergency stop and Eden in the same safety loop together with Vital or Pluto gives cat. 4/PL e acc. to EN ISO 13849-1
- With LED indication on push button
- Robust
- Info-signal from each emergency stop
- Push button IP 65, housing IP67
- Available as safety stop (black push button)



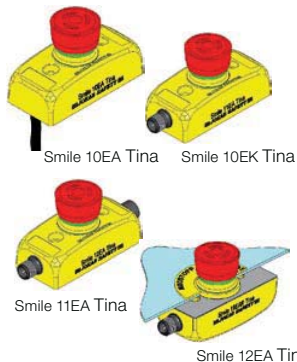
Smile small and cost effective E-stop

In order to fulfill the need for a small and easy to install E-stop, Smile has been developed. The size of the device makes it possible to be installed wherever you want. With M12 connections or cable and centralised mounting holes Smile is very easy to install, especially on aluminium extrusions. Smile is available for E-stops in both dynamic and static safety circuits i.e. for interfacing to Vital system/Pluto safety PLC and Safety relays. Each version is available with either one or two M12 connections or cable. Two M12 connectors are used to enable the connection of E-stops in series, which is often used with dynamic safety circuits fulfilling safety category 4. In the top of the Smile Tina E-stop unit, LEDs show the actual status according to the dynamic system: Green = everything is OK, Red = E-stop activated. Flashing Red/Green = Stop activated from another preceding device. Smile is also available with black push button and used as a safety stop. See section on safety stops.

Smile emergency stop has four different variants:

1. Smile 10EA Tina has a 1 m cable connected via the base of the unit.
2. Smile 11EA Tina has a five-pole M12 connector on the end of the unit for connecting the ABB Jokab Safety cable.
3. Smile 12EA Tina has two five-pole M12 connectors, one on each end of the unit for connecting the ABB Jokab Safety cable.
4. Smile 11EAR Tina has one 5-pole M12 connector at one end for connection of cable from ABB Jokab Safety.

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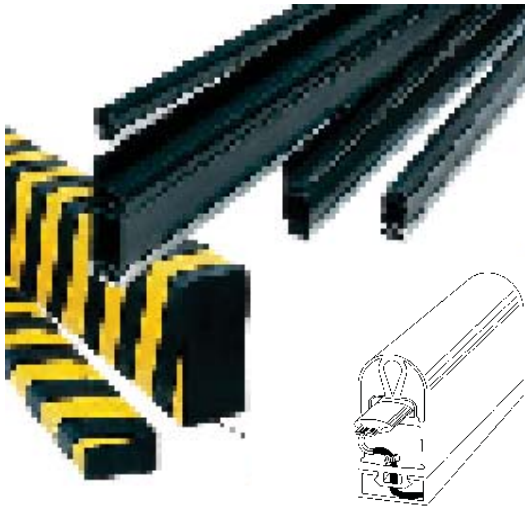


Selection

Description	Part No	Product Hierarchy 4700008	
		Order Code	Price
Smile 10EA Tina with 1 m connection cable	30-050-04	2TLA030050R0400	POA
Smile 11EA Tina with M12 male connector	30-050-00	2TLA030050R0000	POA
Smile 12EA Tina with male and female M12 connectors	30-050-02	2TLA030050R0200	POA
Smile 11EAR Tina	30-050-01	2TLA030050R0100	POA
Smile 11SA Tina	30-050-05	2TLA030050R0500	POA

Note. There are versions for use with relay technology (without Tina).

Contact rails and bumpers



Utilisation

- Protection against squeezing accidents on moving machine parts and automatic doors

Advantages

- Can be connected to a safety relay, Vital or Pluto
- Supplied in customised lengths
- IP 65
- Simple assembly on site
- Lengths up to 25 m

Safety contact rails and bumpers as safety devices for potentially dangerous machines

Safety contact rails

Contact edges are used as protection against crushing injuries, for example, moving machine parts, automatic doors.

7

Contact edges with cast-in contact strips

Our new contact edges consist of a rubber profile with a cast-in contact strip. They are made up simply using connection plugs that are glued to the ends together with a terminal cap. The rubber profile is fitted on an aluminium profile.

Available in EPDM design. Supplied in lengths up to 25 m.

Contact edges with contact strips SKS 18

The contact edge consists of a rubber profile with a safety contact strip inside. The contact edge is fitted on an aluminium profile.

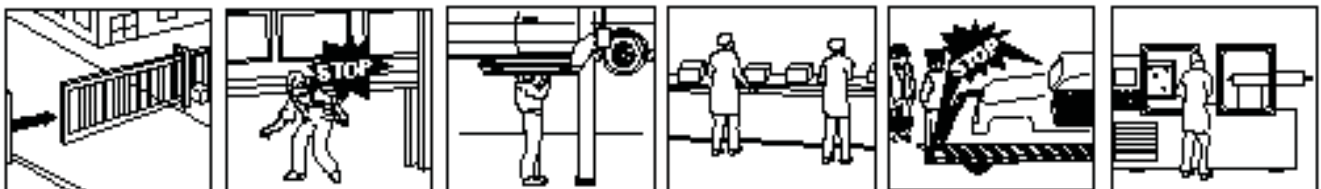
The special design of rubber profiles of EPDM or NBR rubber protect the inner contact strip in the best way possible against damage and also allow for a contact angle exceeding $\pm 45^\circ$. Normally supplied in lengths up to 25 m.

Bumpers

Bumpers are employed on automatic production lines to minimise danger to both people and machines. The large foam rubber cushions enable long practical braking and run-through distances, thus enabling designers to optimise protection for both personnel and machines.

The safety contact strips are mounted inside aluminium profiles which are, in turn, protected by the large foam cushions that are glued to the carrier profile and then sprayed with a thin film of polyurethane which makes the bumper waterproof and helps to minimise wear and tear.

The bumpers are delivered mounted to the carrier profile in ordered lengths (0,2 m – 3 m).



Contact rails and bumpers

Technical data - Contact Rails

Mechanical load max ¹	500 N
Actuating angle (DIN) ¹	2x 20°
Mechanical life ¹	10 ⁵
Max. operate temp. range ²	-20°C to +55°C
Max. temperature range	-25°C to +70°C
Protection classification	IP 65
Max. Electrical load	24V 100mA
Resistance	0.6 Ohm/m
Conductors	GP: 2x 0.38 mm ² GE: 2x 0.34 mm ²
Conductors insulation material	GP: PVC GE: PUR matt blackt

(1) According to DIN 31006-2 (GS - BE - 17)

(2) Not including DIN 31006-2 (GS - BE - 17)

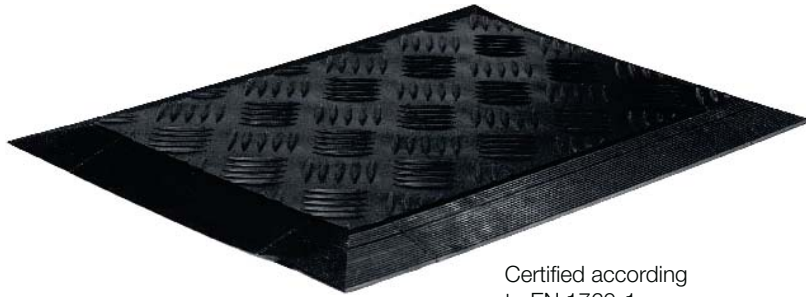
Technical data - Bumpers

Dimensions - Length	Max. 3000mm
Protection rating	IP 65
Connection cable	2 x 2m; 2 x 0,34 mm ² PU

Selection

Description	Part No	Product Hierarchy 4700008	
		Order Code	Price
Safety contact rail 25-25 EPDM	76-025-25	2TLJ076025R2500	38.82
Safety contact rail 25-40 EPDM	76-025-40	2TLJ076025R4000	39.33
Safety contact rails 25-25 NBR	76-125-25	2TLJ076125R2500	47.21
Safety contact rails 25-40 NBR	76-125-40	2TLJ076125R4000	48.96
Production cost 2+2m cable	76-009-01	2TLJ076009R0100	44.03
Production cost 5+5 m cable	76-009-05	2TLJ076009R0500	48.30
Production cost 7+7 m cable	76-009-08	2TLJ076009R0800	50.92
Production cost 10+10 m cable	76-009-10	2TLJ076009R1000	63.70
Bumper ASB 53/100 black	76-200-01	2TLJ076200R0100	114.67
Bumper ASB 100/200 black	76-200-02	2TLJ076200R0200	220.05
Bumper ASB 150/300 black	76-200-03	2TLJ076200R0300	292.10
Bumper ASB 200/400 black	76-200-04	2TLJ076200R0400	363.65
Bumper ASB 53/100 black/yellow	76-200-05	2TLJ076200R0500	183.80
Bumper ASB 100/200 bl./yl.	76-200-06	2TLJ076200R0600	298.96
Bumper ASB 150/300 bl./yl.	76-200-07	2TLJ076200R0700	382.27
Bumper ASB 200/400 bl./yl.	76-200-08	2TLJ076200R0800	465.10

Safety mats



Certified according to EN 1760-1.

Application:

- Personal protection within the dangerous areas around presses, robots, production lines, machines etc.

Features:

- Can be connected to a safety relay, Vital or Pluto
- Very durable
- IP 67



The ASK Safety Mat is used as personal protection within the dangerous areas.

When connected to a suitable monitoring system stepping on the Safety Mat will immediately be detected causing dangerous machine movements to be stopped. This is made possible by the detection of electrical contacts closing within the sandwich construction of the Mat. As a load-bearing component the Mat is made with a bottom plate of either synthetic material or metal. The Safety Mat is provided with a ribbed surface, which is fixed by adhesive to the surface of the Safety Mat.

The safety mat and its connection cabling can be supervised by a suitable ABB Jokab Safety safety relay, which provides PL d.

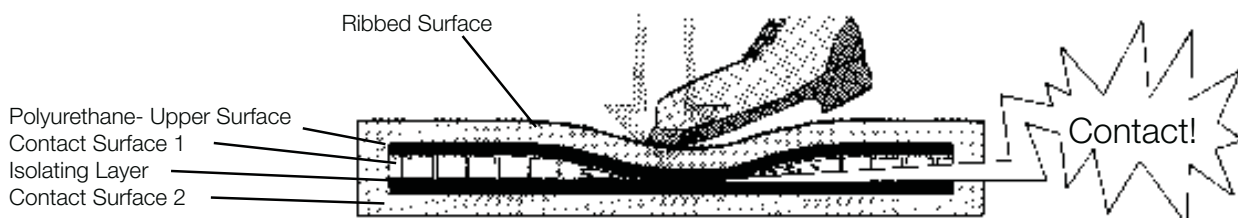
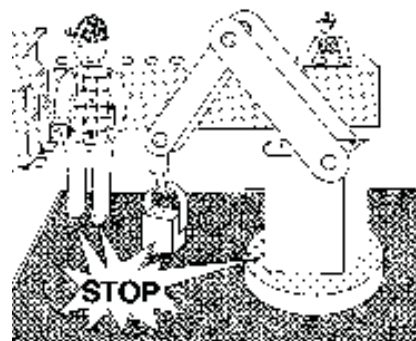
isolating layer. The internal switching surface is cast into a durable polyurethane to protect against moisture, and this is then covered with a top layer of ribbed or chequered rubber mat or a thin aluminium plate.

Attachment to the floor is by means of a ramped edge trim or a z-profile made of aluminium. The ramp profile has a channel for connection cables.

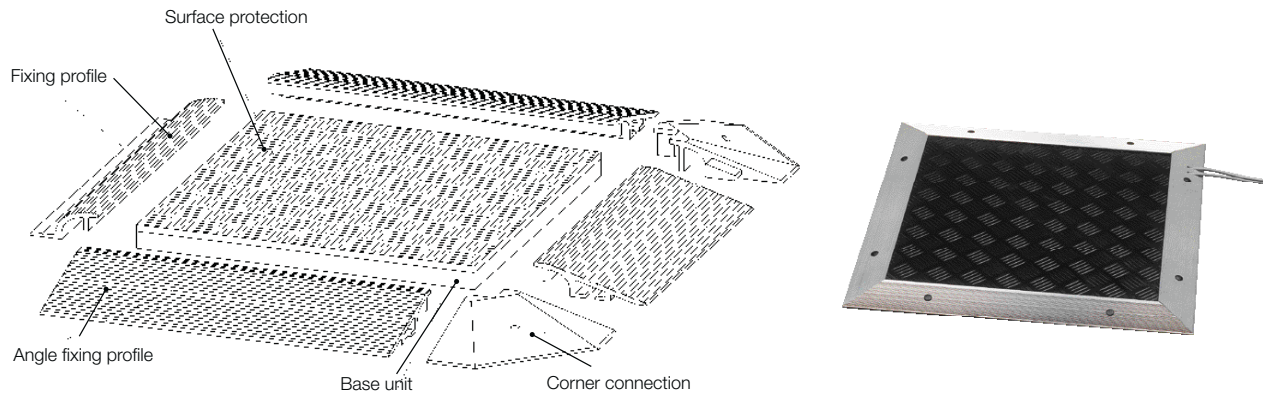
Custom Mats can be made, i.e. special shape, resistant against harsh industrial environments (mineral oil, acid, bleach etc.) or with a non-slip surface or M12-contacts.

7

The basic Mat construction consists of a ground plate of either PVC, Aluminium or Stainless Steel which provides protection against uneven ground etc. The Mat is made up of a sandwich construction, the pressure contact switch consisting of two conducting sheets separated from each other by a webbed



Safety mats



Technical data - general	
Max. area	Entire mat = 2350 x 1350 mm 10 m ² (divided mat) Rec. relation max 3:1 Min 100x100 mm
Height	10mm without ribbed surface max 14.5 mm with ribbed surface
Inactive Area	Nominally 10 mm from Mat edge
Material	Black polyurethane, other colours on request
Protection Class	IP 67
Ambient Air Temperature	0°C to +60°C
Chemical Resistance Oil, grease 10% acid 10% alkaline (caustic) solutions	good resistant resistant
Cable	2 x 5 m, 2 x 0,34 mm ² , PU sheathed
Mechanical Life	> 1,5x10 ⁸ load shifting

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Selection

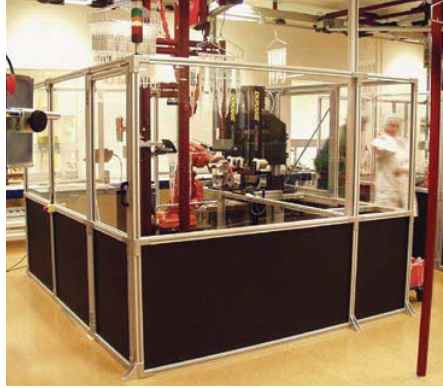
Description	Part No	Product Hierarchy 4700009	
		Order Code	Price
Safety mat ASK-1U4.4-RF 750x1000mm, 5+5m cables	76-310-05	2TLJ076310R0500	POA
Safety mat ASK-1U4.4-RF 1000x1000mm, 5+5m cables	76-310-06	2TLJ076310R0600	POA
Safety mat ASK-1U4-RF 1000x1500mm, 5+5m cables	76-310-07	2TLJ076310R0700	POA
Safety mat ASK-1T4.4-RF 750x1000mm, 5+5m cables	76-310-10	2TLJ076310R1000	POA
Safety mat ASK-1T4.4-RF 1000x1000mm, 5+5m cables	76-310-11	2TLJ076310R1100	POA
Safety mat ASK-1T4.4-RF 1000x1500mm, 5+5m cables	76-310-12	2TLJ076310R1200	POA
RS 14, Ramp rail in aluminium	76-300-05	2TLJ076300R0500	26.97
BS 14 profile for ASK and KMS in alumi	76-300-08	2TLJ076300R0800	17.16
Corner piece	76-300-09	2TLJ076300R0900	6.06

Fencing systems

Quick-Guard



Quick-Guard Standard assembled with mesh.



Quick-Guard Standard with black and transparent Polycarbonate in-fill panels as used for medical applications.



Quick-Guard E with few components and easy to angle at up to 45°.

Adaption and Modification

Quick-Guard is a very flexible fencing system consisting of a minimum of different components, e.g. aluminium profiles, patented brackets, net-locks, mesh, solid or noise reduction panels. Using these components there are almost no limitations as to what can be built. Quick-Guard fencing costs little to assemble and modify.

Assembly

Due to our patented screw-lock system, we can supply all brackets pre-mounted with fixing screws and nuts. No holes need to be drilled in the profiles and all cutting is straight. This makes assembly and modification very easy.

Two versions of Quick-Guard

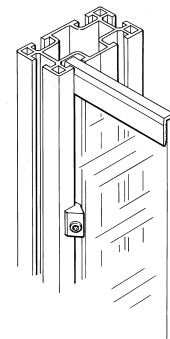
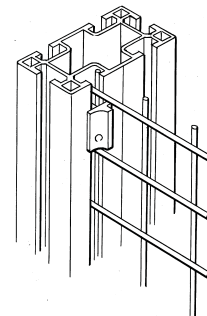
The Quick-Guard fencing system is available in two versions, Quick-Guard (Standard) and Quick-Guard E which also can be combined. The fencing systems are also easy to adjust when production equipment is modified and/or moved.

Proposal and ordering

By utilising our AutoCAD-based SafeCAD program we are able to make system designs in 3-D very quickly. Drawings, cutting lists, etc. are generated from SafeCAD and the drawings can also be used for installation purposes.

Our policy - To create systems that are environmentally friendly and provide ergonomic working conditions.

Quick-Guard is environmentally friendly. All components in the Fencing System can easily be disassembled and reused. All materials in the Fencing System are 100% recyclable. Quick-Guard can also provide a pleasing ergonomic working environment.

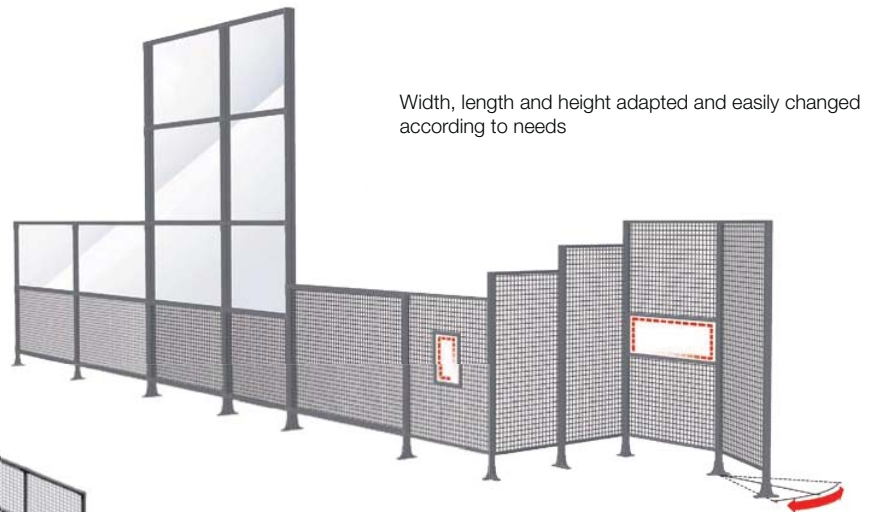


Fencing systems Quick-Guard

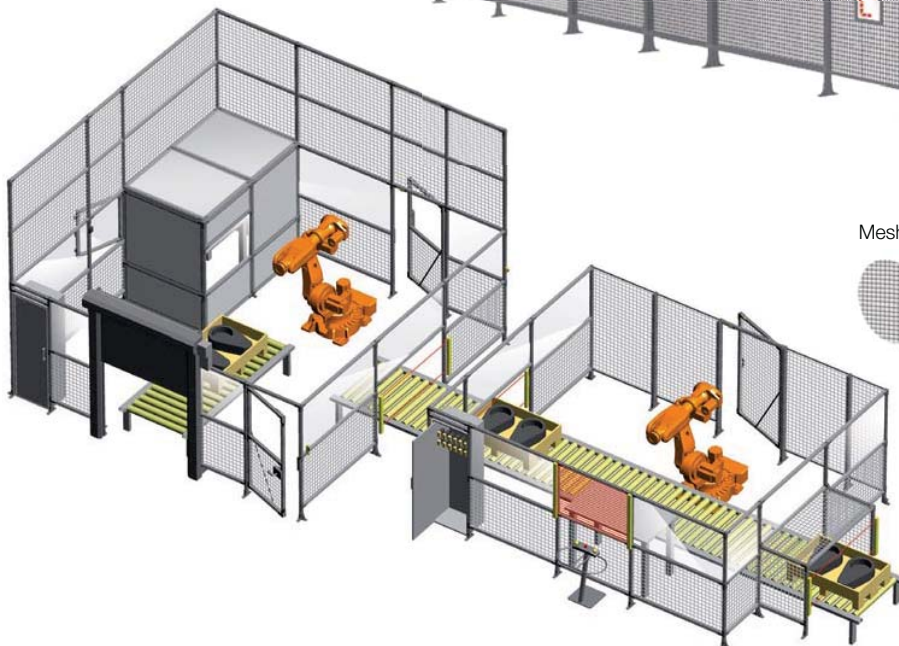
A flexible and stable fencing system which is easy to install



Fixings with pre-mounted screws and nuts mean easy assembly



Width, length and height adapted and easily changed according to needs



Mesh Plastic Glass Plate Sound absorbing



Fencing systems

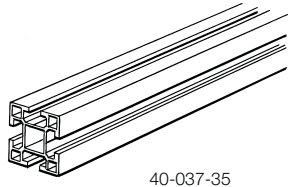
Quick-Guard

Selection

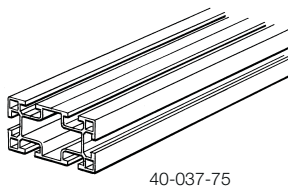
Description	Part No	Product Hierarchy 4700009	
		Order Code	Price

Fencing profiles

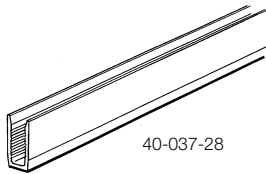
JSM A44A Al. extrusion 44x44mm, untreated, per m	40-037-97	2TLJ040037R9700	17.65
JSM A44A Al. extrusion 44x44mm, L=1400mm	40-037-98	2TLJ040037R9800	21.15
JSM A44A Al extr. 44x44mm per m	40-037-35	2TLJ040037R3500	16.49
JSM A44A Al extr. 44x44mm, L=1100mm	40-037-36	2TLJ040037R3600	POA
JSM A44A Al extr. 44x44mm, L=2000mm	40-037-37	2TLJ040037R3700	28.43
JSM A44A Al extr. 44x44mm, L=2200mm	40-037-38	2TLJ040037R3800	32.45
JSM A44A Al extr. 44x44mm, L=2400mm	40-037-39	2TLJ040037R3900	POA
JSM A44A Al extr. 44x44mm, L=2500mm	40-037-40	2TLJ040037R4000	POA
JSM A44A Al extr. 44x44mm, L=6000mm	40-037-41	2TLJ040037R4100	POA
JSM A4488A Al extr. 44x88mm per m	40-037-42	2TLJ040037R4200	29.40
JSM A4488A Al extr. 44x88mm, L=2200mm	40-037-44	2TLJ040037R4400	POA
JSM A4488A Al extr. 44x88mm, L=6000mm	40-037-45	2TLJ040037R4500	POA
JSM A4416 Al. extrusion 44x16.5mm per m	40-037-70	2TLJ040037R7000	17.99
JSM A4416 Al. extrusion 44x16.5mm, L=6000mm	40-037-74	2TLJ040037R7400	POA
JSM A8888 Al. extrusion 88x88mm per m	40-037-75	2TLJ040037R7500	52.94
JSM A8888 Al. extrusion 88x88mm, L=6000mm	40-037-79	2TLJ040037R7900	POA
JSM A4426 Al. extrusion 44x26mm per m	40-037-80	2TLJ040037R8000	13.28
JSM A4426 Al. extrusion 44x26mm, L=6000mm	40-037-81	2TLJ040037R8100	POA



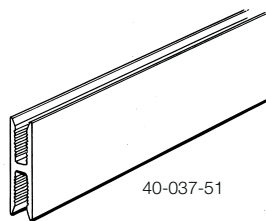
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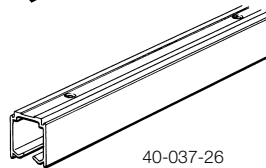
40-037-75



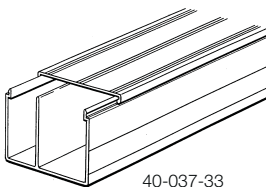
40-037-28



40-037-51



40-037-26



40-037-33

Fencing U profiles

JSM A12 Edge protection U-profile per m	40-037-28	2TLJ040037R2800	5.18
JSM A12-1076 U-profile L=1076mm	40-037-27	2TLJ040037R2700	3.15
JSM A12-1476 U-profile L=1476mm	40-037-46	2TLJ040037R4600	6.04
JSM A12-2000 U-profile L=2000mm	40-037-47	2TLJ040037R4700	POA

Fencing H profiles

JSM A13 H-profile, natural anodised for Express per m	40-037-50	2TLJ040037R5000	6.96
JSM A13-1076 H-profile natural anodised for Express, L=1076mm	40-037-51	2TLJ040037R5100	POA
JSM A13-1076 H-profile natural anodised for Express, L=1476mm	40-037-52	2TLJ040037R5200	POA
JSM A13-1076 H-profile natural anodised for Express, L=2020mm	40-037-53	2TLJ040037R5300	14.31

Guide rails

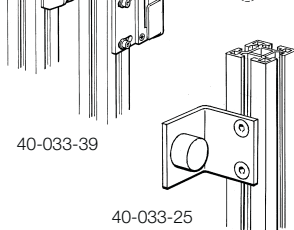
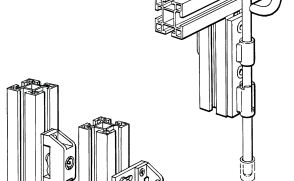
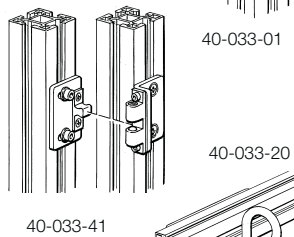
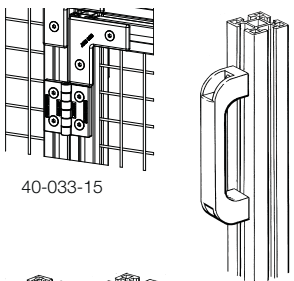
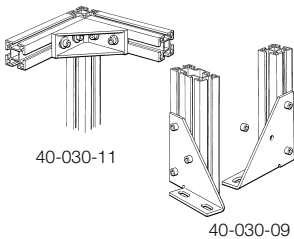
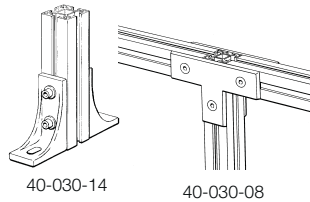
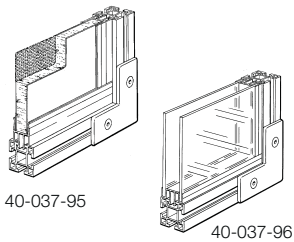
JSM A3130B guide rail incl. mounting components	40-037-26	2TLJ040037R2600	31.17
JSM A56 Guiding rail in alu. incl. screw, L=2m	40-037-08	2TLJ040037R0800	POA
JSM A56 Guiding rail in alu. incl. screws	40-037-49	2TLJ040037R4900	31.99
JSM A56-6000 Guiding rail in alu. L=6m incl. screws	40-037-48	2TLJ040037R4800	POA

Cable ducting

JSM A11 Coverstrip alu. L=2m	40-037-12	2TLJ040037R1200	POA
JSM A25A Cable duct 44x25mm, w. holes incl. cap, L=2m	40-037-13	2TLJ040037R1300	POA
JSM A25B Cable duct 44x25mm incl. cap, L=2m	40-037-14	2TLJ040037R1400	POA
JSM A60A Cable duct 44x60mm w. holes incl. cap, L=2m	40-037-15	2TLJ040037R1500	POA
JSM A60B Cable duct 44x60mm incl. cap, L=2m	40-037-16	2TLJ040037R1600	POA
JSM A88 Cable duct 88x68mm, L=2m	40-037-33	2TLJ040037R3300	POA
JSM A4488A Al extr. 44x88mm, L=2000mm	40-037-43	2TLJ040037R4300	POA
JSM A4488A Al extr. 44x88mm, L=2000mm	40-037-43	2TLJ040037R4300	POA

Fencing systems

Quick-Guard



Selection

Description	Part No	Product Hierarchy 4700009	
		Order Code	Price

Acoustic damping profiles

JSM AS1 Al-Profile for 25mm sound absorbing panel, per m	40-037-95	2TLJ040037R9500	11.88
JSM AS2 Al-Profile for 2x5mm PC sheet, per m	40-037-96	2TLJ040037R9600	10.71
JSM AS1 Al-Profile for 25mm sound abs. panel, L=2m	40-037-09	2TLJ040037R0900	POA
JSM AS2 Al-Profile for 2x5mm PC sheet, L=2m	40-037-10	2TLJ040037R1000	POA

Fittings

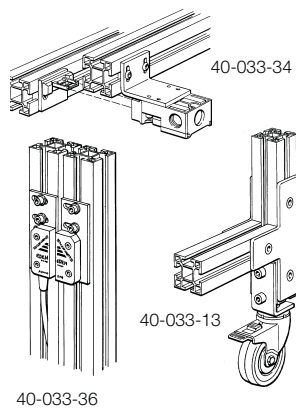
JSM 39-K Floor/angle bracket Alu. Premounted	40-030-14	2TLJ040030R1500	POA
JSM 30B-K Floor bracket	40-030-06	2TLJ040030R0700	9.47
JSM 30B-K1 Angle bracket with four screws	40-030-11	2TLJ040030R1300	POA
JSM 31B-K Small angular bracket	40-030-13	2TLJ040030R1400	POA
JSM 36-K1 Floorbracket in steel for JSM A4488A	40-030-09	2TLJ040030R1000	POA
JSM 36-K2 Floorbracket in steel for JSM A44A	40-030-10	2TLJ040030R1100	POA
JSM 32B-K L-bracket premounted	40-030-07	2TLJ040030R0800	6.10
JSM 33B-K T-bracket premounted	40-030-08	2TLJ040030R0900	POA
JSM 37 Support clip Express	40-033-31	2TLJ040033R3100	0.73
JSM 35-K Hinge w. screw c-c47	40-033-14	2TLJ040033R1500	13.11
JSM 34B-K I-bracket premounted with screws	40-030-15	2TLJ040031R0600	POA

Door components

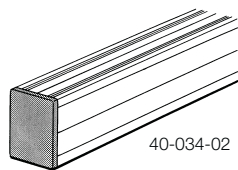
JSM D1A Hinge incl screw c-c62	40-033-15	2TLJ040033R1600	POA
JSM D2 Handle incl. screws	40-033-01	2TLJ040033R0200	POA
JSM D3 Doorcloser incl mounting comp	40-033-02	2TLJ040033R0400	POA
JSM D11B Ball latch	40-033-41	2TLJ040033R4100	35.40
JSM D11C Ball latch for sliding door	40-033-42	2TLJ040033R4200	POA
JSM D16 Key for JSM D15 Cam lock	40-033-44	2TLJ040033R4400	POA
JSM D4K Fitting EDEN/EDEN E Stainless steel	40-033-45	2TLJ040033R4500	POA
JSM D10A Pullock extended	40-033-21	2TLJ040033R2200	POA
JSM D10 Pullock	40-033-20	2TLJ040033R2100	POA
JSM D10B Door bolt with spring	40-033-38	2TLJ040033R3800	POA
JSM D15 Cam lock excl. key, polyamid black	40-033-39	2TLJ040033R3900	45.72
JSM D13A Doorstop angular	40-033-26	2TLJ040033R2700	POA
JSM D13B Doorstop horizontal	40-033-27	2TLJ040033R2800	POA
JSM D14 Crossbar L= 1160 mm	40-033-28	2TLJ040033R3000	POA
JSM D5 Suspension wheel	40-033-04	2TLJ040033R0500	20.48
JSM D6 Sliding element, rect.	40-033-05	2TLJ040033R0600	POA
JSM D7 Sliding element, round	40-033-06	2TLJ040033R0700	POA
JSM D8 Sliding element, guide	40-033-07	2TLJ040033R0800	POA
JSM D12 Guiding pin vertical	40-033-22	2TLJ040033R2300	POA
JSM D12A Guiding pin horizontal	40-033-23	2TLJ040033R2400	POA
JSM D12B Guiding bracket	40-033-24	2TLJ040033R2500	POA
JSM D13 Doorstop vertical	40-033-25	2TLJ040033R2600	11.03
JSM D9 Guide roller w. locking mechanism	40-033-08	2TLJ040033R0900	POA
JSM D4A Fittings for JSNY5 conv. opening door	40-033-09	2TLJ040033R1000	POA
JSM D4B Fittings for JSNY5 switch fittings	40-033-10	2TLJ040033R1100	POA
JSM D9-K Guide roller w. Lock mechanism 75/79 incl. angle	40-033-11	2TLJ040033R1200	POA

Fencing systems

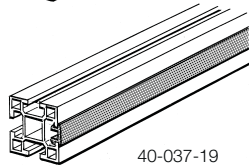
Quick-Guard



40-033-36



40-034-02



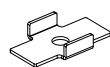
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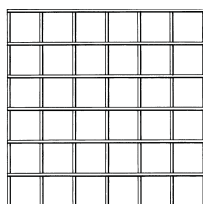
40-035-05



40-033-43



40-035-50



40-040-14

Selection

Description	Part No	Product Hierarchy 4700009	
		Order Code	Price

Door components cont.

JSM D9A Guide roller 75/79	40-033-12	2TLJ040033R1300	POA
JSM D9A-K Guide roller 75/79 incl. angle	40-033-13	2TLJ040033R1400	13.11
JSM D4H Fitting for ADAM/EVA incl. accessories	40-033-36	2TLJ040033R3600	POA
JSM D4AA Fittings for JSNY5	40-033-34	2TLJ040033R3400	22.84
JSM D4D Fittings for JSNY8 sliding door	40-033-17	2TLJ040033R1800	POA
JSM D4E Fitting for JSNY7M/R	40-033-18	2TLJ040033R2000	POA
JSM D4G Fittings for JSNY7	40-033-33	2TLJ040033R3300	POA
JSM D4C Fittings for JSNY8/9 conventional door	40-033-16	2TLJ040033R1700	POA

Terminal caps and strips

JSM L1A Terminal cap yellow for JSM A44A	40-034-00	2TLJ040034R0000	0.84
JSM L2 Term. cap for JSM A25 grey	40-034-01	2TLJ040034R0100	POA
JSM L3 Term. cap for JSM A60 grey	40-034-02	2TLJ040034R0200	POA
JSM L1B Terminal cap grey for JSM A44A	40-034-03	2TLJ040034R0300	POA
JSM L4A Terminal cap yellow for JSM A4488A	40-034-04	2TLJ040034R0400	POA
JSM L4B Terminal cap grey for JSM A4488A	40-034-05	2TLJ040034R0500	POA
JSM T3A Coverstrip yellow, L=2m	40-037-31	2TLJ040037R3100	2.06
JSM T3B Coverstrip grey, L=2m	40-037-32	2TLJ040037R3200	2.06
JSM T2A Wide cover strip yellow	40-037-19	2TLJ040037R1900	50.58

Accessories

JSM M5B Specialnut M5	40-035-04	2TLJ040035R0400	POA
JSM M6B Specialnut M6	40-035-05	2TLJ040035R0500	POA
JSM M8B Specialnut M8	40-035-06	2TLJ040035R0600	0.48
JSM M4B Specialnut M4	40-035-07	2TLJ040035R0700	POA
JSM X1 Cable tie 2.5-7.8mm, nylon black UV stable, 10pcs	40-033-43	2TLJ040033R4300	11.75
JSM B4C Centering plate M4 Steel galvanised	40-035-50	2TLJ040035R5000	POA
JSM B5C Centering plate M5 Steel galvanised	40-035-51	2TLJ040035R5100	POA
JSM B6C Centering plate M6 Steel galvanised	40-035-52	2TLJ040035R5200	POA
JSM B8C Centering plate M8 Steel galvanised	40-035-53	2TLJ040035R5300	POA

Surfaces

JSM YN40W1 Welded mesh black, 40x40x3.5mm, 2020x865mm	40-040-13	2TLJ040040R1300	39.11
JSM YN40W2 Welded mesh black, 40x40x3.5mm, 1074x1816mm	40-040-14	2TLJ040040R1400	44.03
JSM YN40W3 Welded mesh black, 40x40x3.5mm, 1074x2016mm	40-040-15	2TLJ040040R1500	POA
JSM YN40W9 Welded mesh black, 40x40x3.5mm, cut to size	40-040-16	2TLJ040040R1600	37.59
JSM YN40WE2 Stainless steel, 40x40x3.5mm, 1074x1816mm	40-040-18	2TLJ040040R1800	POA
JSM YN40WE9 Stainless steel, 40x40x3.5mm, cut to size	40-040-19	2TLJ040040R1900	144.90
JSM YN40W4 Welded mesh black, 40x40x3.5mm, 1474x2016mm	40-040-20	2TLJ040040R2000	66.54
JSM YN40W5 Welded mesh black, 40x40x3.5mm, 1474x1816mm	40-040-21	2TLJ040040R2100	61.08
JSM YN40WE1 Stainless steel, 40x40x3.5mm, 2020x864mm	40-040-25	2TLJ040040R2500	POA
JSM YN40W6 Welded mesh black, 40x40x3.5mm, 2020x754mm	40-040-26	2TLJ040040R2600	POA
JSM YN40W7 Welded black mesh, 40x40x3.5mm, 2020x1174mm	40-040-27	2TLJ040040R2700	54.85
JSM YN40W10 Welded black mesh 40x40x3,5m	40-040-28	2TLJ040040R2800	POA
JSM YN40W11 Welded black mesh 40x40x3,5m	40-040-29	2TLJ040040R2900	POA

Fencing systems

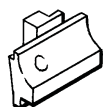
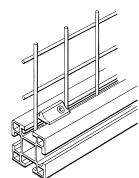
Quick-Guard

Selection

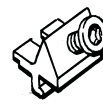
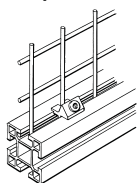
Product Hierarchy 4700009

Description	Part No	Order Code	Price
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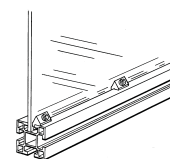
Surfaces cont.



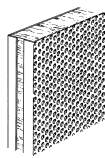
40-031-06



40-031-08



40-038-11



40-039-26

JSM NL2 Netlock in PA f welded	40-031-06	2TLJ040031R0800	0.44
JSM NL3 Netlock f. welded mesh	40-031-08	2TLJ040031R0900	0.80
JSM YPC5A1 PC sheet 5mm, uncoloured, 2020x865mm	40-039-10	2TLJ040039R1000	143.14
JSM YPC5A2 PC sheet 5mm, uncoloured, 2020x1175mm	40-039-11	2TLJ040039R1100	194.49
JSM YPC5A9 PC sheet 5mm, uncoloured, cut to size	40-039-12	2TLJ040039R1200	101.26
JSM YPC4A9 PC sheet 4mm, uncoloured, cut to size	40-039-16	2TLJ040039R1600	79.99
JSM YPC5A3 PC sheet 5mm, uncoloured, 1076x1816mm	40-039-17	2TLJ040039R1700	182.47
JSM YPC5A4 PC sheet 5mm, uncoloured, 1076x2016mm	40-039-18	2TLJ040039R1800	205.41
JSM YPC5A5 PC sheet 5mm, uncoloured, 960x1698mm	40-039-19	2TLJ040039R1900	146.41
JSM YPC3AC9 PC for welding, dark brown 3mm, cut to size	40-039-24	2TLJ040039R2400	154.10
JSM YPC3AC1 PC for welding, dark brown 3mm, 2050x3000mm	40-039-25	2TLJ040039R2500	POA
JSM YLA25A1 Sound absorbing panel 25mm, white/gal, 1963x1200mm	40-039-26	2TLJ040039R2600	357.29
JSM YGP1A9 Steel panel 1.0mm, X-reinforced, per m2	40-039-07	2TLJ040039R0700	74.11
JSM PL1A Securing strip L=842mm	40-038-01	2TLJ040038R0100	POA
JSM PL1B Securing strip L=1152mm	40-038-02	2TLJ040038R0200	POA
JSM PL1C Securing strip L=2000mm	40-038-03	2TLJ040038R0300	POA
JSM PL1D Securing strip L=732mm	40-038-04	2TLJ040038R0400	POA
JSM G2 Cellular rubber for securing glass, self-adhesive	40-038-06	2TLJ040038R0600	2.23
JSM PL2A Securing strip L=842mm, for 4mm sheets	40-038-07	2TLJ040038R0700	POA
JSM PL2B Securing strip L=1152mm, for 4mm sheets	40-038-08	2TLJ040038R0800	POA
JSM PL2C Securing strip L=2000mm, for 4mm sheets	40-038-09	2TLJ040038R0900	2.06
JSM PL2D Securing strip L=732mm, for 4mm sheets	40-038-10	2TLJ040038R1000	POA
JSM PL3 Securing component for 5mm infill panels	40-038-11	2TLJ040038R1100	POA

Terms and Conditions

9. LIABILITY FOR DEFECTS
- 9.1. Except as expressly set out in Orgalime S2000 and this Addendum, all conditions, warranties and representations, implied by statute, common law or otherwise, in relation to the supply, non supply or delay in supplying the Products are excluded to the fullest extent permitted by law and the warranties, as stipulated in Clauses 22-36 and Article 9.2, are exclusive and in lieu of all other warranties, conditions, terms, representations, statements, undertakings and obligations whether expressed or implied by statute, common law, custom, usage or otherwise, all of which are excluded to the fullest extent permitted by law.
- 9.2. Save as stipulated in Clauses 22-36, the necessary repair, replacement or re-performance shall constitute ABB's total liability to the Purchaser for defects in design, material or workmanship.
10. FORCE MAJEURE
- 10.1. Should a Force Majeure event occur, the delivery date(s) shall be extended by a period equal to the duration of the Force Majeure event plus a reasonable time to overcome the consequences and all additional costs and expenses incurred by ABB shall be paid by the Purchaser in addition to the purchase price.
- 10.2. For the elimination of any doubt, "circumstances beyond the control of the parties", (cf. Clause 39), shall be deemed to include, without limitation, any acts of God, act of terrorism, sanction, blockage, import restriction or any other act or failure to act of any state or national government authority.
11. EXPORT RESTRICTIONS AND NON-AUTHORISED USE
- 11.1. Unless expressly agreed otherwise in writing by ABB, the Product is provided on strict condition that:
- the Product is solely for civil use;
 - the Product is not to be supplied to any country whether directly or indirectly or for any application where such supply or application is prohibited by any law or regulation binding or effective in that country, in the UK, the US or the country of manufacture;
 - the Product will not in any way be installed, used or applied in or in connection with the operation of any nuclear facilities such as but not limited to nuclear power plants, nuclear fuel manufacturing plants, uranium enrichment plants, spent nuclear fuel stores or research reactors; and
 - whenever ABB so requests, the Purchaser shall provide ABB with an end-user certificate, which shall be on such terms and in such form as ABB may require and signed by the end-user confirming that it shall comply with Article 11.1 (a) to (c) . Until such time as ABB has received such end-user certificate, ABB shall be entitled to suspend the performance under this contract. The end-user certificate shall form part of this contract. The Purchaser agrees and accepts that it shall be liable for any acts or omissions in relation to the use of the Products (including (without limit) the acts or omissions of its employees, agents, subcontractors, customers, any end user of the Products and/or any third party) in breach any of the provisions set out in Article 11.1 (a) to (c) and further agrees that such a breach shall be deemed a fundamental breach of contract by the Purchaser, and shall entitle ABB to terminate the contract forthwith by giving notice to the Purchaser.
- 11.2 The Purchaser shall comply with all laws and other restrictions on the export, re-export or import of any Product or technology licensed under the contract as may be imposed from time to time by the UK or US Governments or their agencies, and shall procure such export licence or other Government approval as may be required. The Purchaser shall require that all third parties receiving such Product or technology from the Purchaser comply with this requirement. ABB shall assist the Purchaser in every reasonable way in obtaining of such licences at the Purchaser's cost.
- 11.3 The performance by either of the parties of an obligation under this contract, which performance requires an export or import licence or other government approval, and any other obligation affected shall, to the extent it is necessary, automatically be suspended until such licence or approval as mentioned in Article 11.2 is given. If such licence is not granted within a reasonable time or is revoked by the appropriate authorities, ABB shall be entitled to terminate this contract, and the Purchaser shall indemnify ABB on demand for any loss or damage which ABB may suffer or incur as a result of such termination.
- 11.4 ABB may at its reasonable discretion, without breaching the contract, delay, withhold or refuse the provision of services to be undertaken in any territory or upon any site deemed by ABB to be unsafe or unfit for ABB's personnel, upon notice of which the parties may agree to reschedule or remove said portion of services from scope.
- 11.5 The Purchaser shall keep ABB, its officers, directors, employees, agents and advisers indemnified against any and all claims and liabilities arising out of any breach by the Purchaser or any for whom the Purchaser is liable (which shall, without limitation, include the end-user) of any of the provisions set out in this Article 11.
12. CONFIDENTIALITY
- 12.1. The Purchaser shall keep all information communicated to the Purchaser in connection with this contract, or otherwise concerning ABB's business, secret and confidential, and will not use the same except for the purposes of performing this contract.
13. INSURANCE
- 13.1. ABB shall maintain Employer's Liability insurance as required by law and Public/Products Liability insurance in respect of its obligations and liabilities under the contract for an amount of two million pounds (£2,000,000) per one event and in the aggregate. ABB shall upon request produce to the Purchaser evidence of satisfactory policies of insurance in the form of its Brokers letter.
14. INDEMNIFICATION
- 14.1. If Products are to be manufactured or any process is to be applied to Products by ABB in accordance with a specification submitted by the Purchaser, the Purchaser shall indemnify ABB against all losses, damages, costs (including legal costs), expenses, liabilities and claims suffered or incurred by ABB in connection with infringement of any intellectual property rights of any third party resulting from ABB's use of the Purchaser's specification.
15. LIMITATION OF LIABILITY
- 15.1. To the maximum extent permitted by law, and notwithstanding anything to the contrary in this contract, other than the express provisions for liquidated damages, in no event shall ABB be liable to the Purchaser, whether as a result of breach of contract, warranty, guarantee, indemnity, tort (including negligence), strict liability, statutory duty or otherwise, for any of the following damages or losses, in each case whether direct or indirect, such as, but not limited to:
- | | |
|-------------------------------|-----------------------------|
| (a) loss of revenue, | (b) loss of profit, |
| (c) loss of contract, | (d) loss of business, |
| (e) loss of use, | (f) loss of production, |
| (g) interruption of business, | (h) loss of operation time, |
| (i) costs of capital, | (j) economic loss, |

Terms and Conditions

- (k) costs in connection with interruption of operation, or
 - (l) any special, incidental or consequential loss or damage, howsoever caused even if ABB was advised of the possibility of them in advance.
- 15.2. To the maximum extent permitted by law, and notwithstanding anything to the contrary in this contract, ABB's total liability in respect of any and all claims for damages or losses, caused by breach of contract, warranty, guarantee, indemnity, tort (including negligence), strict liability, statutory duty or otherwise, which may arise in connection with its performance or non-performance under this contract shall not exceed in the aggregate the total purchase price.
- 15.3. The Purchaser acknowledges that the contents of this Article 15 have been especially brought to the Purchaser's attention, and agree the exclusions and limitations on liability are reasonable in the circumstances.
16. LIMITATION PERIOD
- 16.1. Subject to law as regards personal injury and death, the Purchaser shall have no claim against ABB, in contract or in tort, in relation to anything performed or delivered under this contract (including claims for defective Products, services or goods), unless ABB has been notified in writing of such claim within twenty-four (24) months of delivery of the Product.
17. TERMINATION
- 17.1. Should
- (a) the Purchaser's payments be overdue by more than fourteen (14) days;
 - (b) a breach of the contract occurs in the circumstances set out in Article 11.1(d) or in Article 19.1;
 - (c) proceedings be commenced to wind up the Purchaser (except for the purpose of solvent amalgamation or reconstruction);
 - (d) any composition or arrangement with the Purchaser's creditors be made;
 - (e) the Purchaser be put into administration, or if a receiver is appointed;
 - (f) the Purchaser stops or suspend payment of its debts or is unable to, or has no real prospect of being able to, or admits an inability to, pay its debts as they fall due or fails to satisfy any judgment debt in whole or in part within fourteen (14) days; or
 - (g) the Purchaser ceases or threatens to cease to carry on the whole or a substantial part of its business or is dissolved;
- ABB shall be entitled (without incurring any liability to the Purchaser) to terminate the contract immediately by notice in writing to the Purchaser, and thereupon to recover any loss or damage ABB has suffered or incurred as a result of such termination.
18. EXCLUSION OF THIRD PARTY RIGHTS
- 18.1. The parties do not intend that a person who is not a party to this contract shall have any rights to enforce any term of this contract.
19. MISCELLANEOUS
- 19.1. The Purchaser shall acquaint itself and comply with ABB's Code of Conduct as displayed on ABB's website (<http://www.abb.com>) as may be updated or modified from time to time.
- 19.2. This contract constitutes the complete understanding between the parties and save in respect of fraud supersedes all previous representations, negotiations and agreements in respect thereof. Neither party shall be bound by any terms other than as expressly provided in this contract or as subsequently agreed between the parties in writing.
- 19.3. The Purchaser shall not use the name or logo of ABB or product designations on any letter heading, publication, advertisement or other literature without prior written approval of ABB, such approval shall be at ABB's sole discretion.
- 19.4. The Purchaser may not subcontract, transfer or assign any of its rights or obligations in connection with this contract.
- 19.5. The invalidity, illegality or unenforceability of any provision of this contract shall not affect the validity of the remaining provisions. If any provision proves to be invalid, illegal or unenforceable, the parties shall replace such provision by a valid new one having an effect as close as possible to the original provision.
20. GOVERNING LAW
- 20.1. This contract shall in all respects be governed by and construed in accordance with the laws of England and Wales. The parties agree that the United Nations Convention On Contracts For The International Sale Of Goods 1980 shall not apply to this contract (even if the UK or any part thereof should accede to the said convention).

Contact us

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