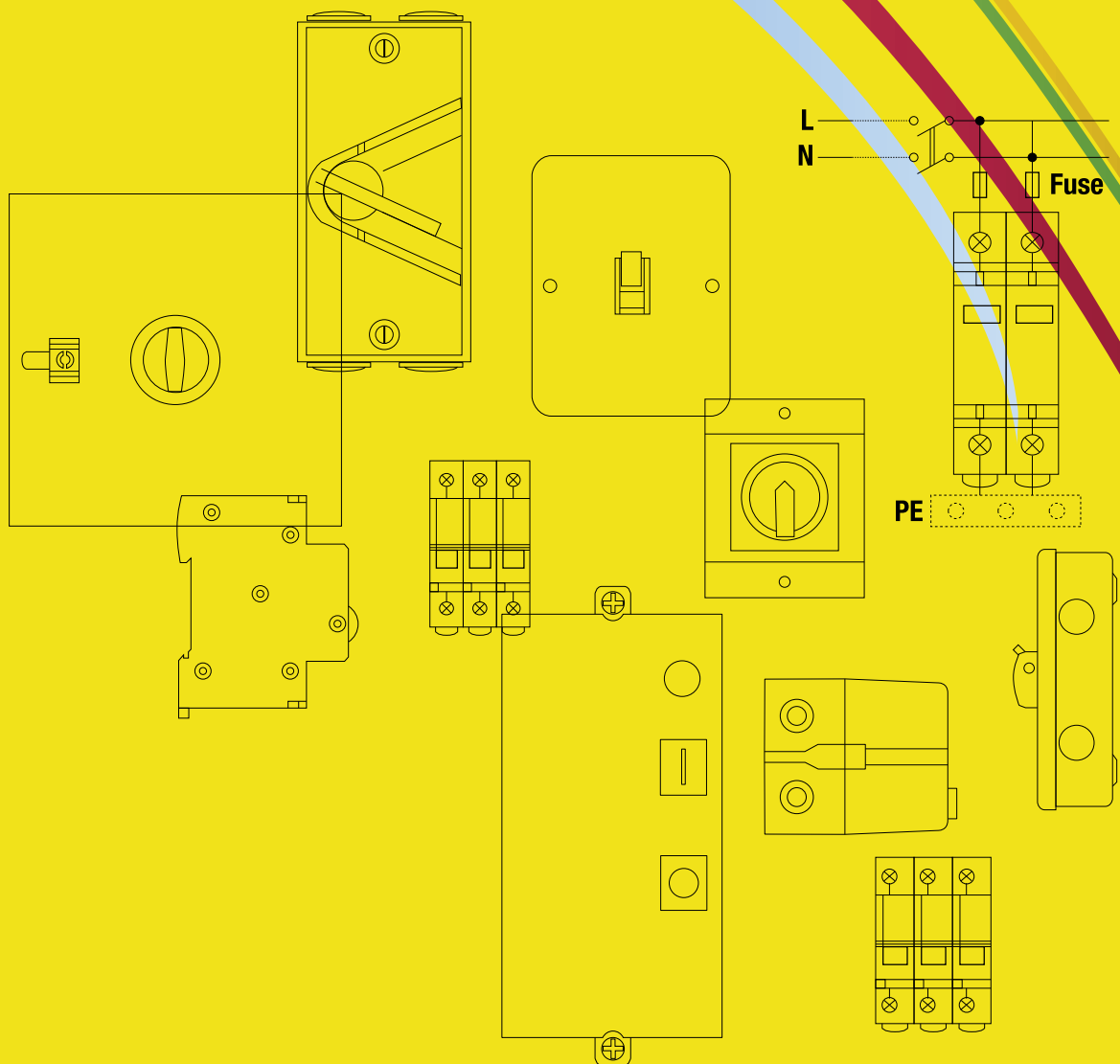




LEWDEN ELECTRICAL INDUSTRIES

CIRCUIT PROTECTION



CONSUMER UNITS • MCBs / RCBOs / RCCBs • MAIN SWITCHES • SURGE PROTECTION

3PHASE BOARDS • EXTENSION BOARDS • MINIATURE CIRCUIT BREAKERS • METER BOARDS

WEATHERPROOF SOCKETS • RCD SOCKETS • ISOLATORS & FUSED SWITCHES

TORQUE SCREWDRIVER • CONTROL GEAR • 22mm CONTROL DEVICES • METAL & GRP ENCLOSURES



ELECTRICAL INDUSTRIES

A B O U T U S

Lewden have 60 years of experience in the design, manufacture and supply of electro mechanical products, to support the supply and distribution of electricity for industrial, commercial and construction applications, our plugs, connectors and switches are distributed worldwide.

Our commitment is towards the provision of application optimal products with the service and technical support of a world class organisation; we aim to be the best for quality and service. Lewden are ISO 9001-2008 accredited and are committed to continuous improvement.



Consumer Units

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Modular Enclosures • Shower Units • Garage Units

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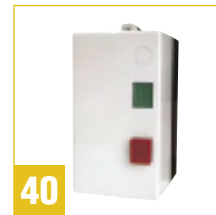
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- **PRODUCT WARRANTY** - Our circuit protection and consumer unit ranges, as featured in this catalogue, all enjoy a 2 year warranty from date of purchase, subject to our standard terms and conditions of sale.
- **EXTRA HEIGHT** - A number of our product ranges are offered in extra height format following feedback for additional space and greater ease of wiring & installation, allowing loop in/out and more choice options for wiring specifications.
- **DISTRIBUTION & TECHNICAL SUPPORT** - Please contact us if additional technical or product information is required, see also our web site. Our circuit protection portfolio is freely available via our wholesale partners, please call for details.



ELECTRICAL INDUSTRIES

Consumer Units

Consumer Units

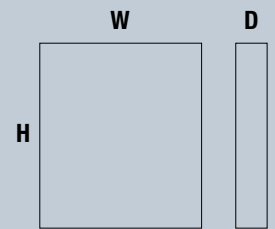


CONSUMER UNITS

INSULATED

STANDARD	BS EN 60439-3 CE	MATERIAL	Self-extinguishing ABS
OPERATING VOLTAGE	230V / 50Hz	ACCESSORY PACK	Pre-printed circuit identification labels
MAXIMUM LOAD (A)	As indicated on incoming device		Phase insulators
PROTECTION DEGREE	IP2XC		Module blanks
SHORT CIRCUIT WITHSTAND	16kA RMS (Backed up by a 100A fuse to BS1361 type 2)		

- Quick & easy to install.
- Earth & neutral terminals at the top.
- 3 or 4 hole fixing points.
- Generous cabling space even with single RCBOs installed.
- Perforated cutouts on back.
- Mini trunking cutouts top & bottom.



RCCB / RCD INCOMER

Part No.	Description	Dimensions (mm)		
		H	W	D
QFS-RB04	63A 30mA RCCB 2way	230	145	110
QFS-RB07	63A 30mA RCCB 5way	230	200	110
QFS-RB10	80A 30mA RCCB 8way	230	255	110
QFS-RB14	80A 30mA RCCB 12way	230	327	110



QFS-RB04

MAIN SWITCH (100A) INCOMER

Part No.	Description	Dimensions (mm)		
		H	W	D
QFS-MB04	m/s 2way	230	145	110
QFS-MB07	m/s 5way	230	200	110
QFS-MB10	m/s 8way	230	255	110
QFS-MB14	m/s 12way	230	327	110
QFS-MB18	m/s 16way	230	397	110
QFS-MB21	m/s 19way	230	451	110
QFS-MB24	m/s 22way (DB)	460	292	122



QFS-MB18

MCBs & RCBOs to be ordered separately. See pages 14-18



QFS-SLB10



QFS-SLB24

SPLIT LOAD

- 'EASICUT' busbar for flexible split on 10, 14, 18.

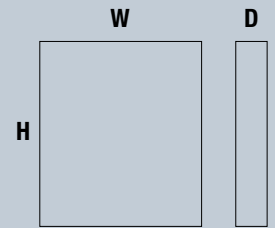
Part No.	Description	Dimensions (mm)		
		H	W	D
QFS-SLB10	100A m/s + 63A 30mA RCCB 6way	230	255	110
QFS-SLB14	100A m/s + 63A 30mA RCCB 10way	230	327	110
QFS-SLB18	100A m/s + 80A 30mA RCCB 14way	230	397	110
QFS-SLB24	100A m/s + 80A 30mA RCCB 20way (10/10) (DB)	460	292	122

MCBs & RCBOs to be ordered separately. See pages 14-18



CONSUMER UNITS

INSULATED



EXTRA HEIGHT CONSUMER UNIT

- Designed for single module RCBOs.
- Larger enclosure enables easy fitting & connection.
- Robust construction.
- Mini trunking cutouts top, bottom & sides.

Part No.	Description	Dimensions (mm)		
		H	W	D
QFS-X16M	100A m/s 14way	272	362	110
QFS-X16RRMFLEXI	100A m/s + 2x 63A 30mA RCCB 10way (max. 2way on m/s)	272	362	110



QFS-X16M

LANDLORD kWh METER BOARDS

- Not MID approved - cannot be used to charge.
- Ideal for monitoring consumption in rented properties, caravans, garages.
- Single module RCBOs should be fitted on circuits to comply with current regulations.

Part No.	Description	Dimensions (mm)		
		H	W	D
QFS-MB10KWH	100A m/s kWh meter 6way	230	255	110
QFS-MB14KWH	100A m/s kWh meter 10way	230	327	110
QFS-MB18KWH	100A m/s kWh meter 14way	230	397	110



QFS-MB18KWH

MCBs & RCBOs to be ordered separately. See pages 14-18

DUAL RCCB

- Quick & easy to install.
- Earth & neutral terminals at the top.
- 3 or 4 hole fixing points.
- Generous cabling space even with RCBOs installed.
- Perforated cutouts on back.
- Mini trunking cutouts top & bottom.



QFS-RRM14FLEXI

QFS-RRM24FLEXI

DUAL RCCB CONSUMER UNITS

- On site configuration as DUAL RCCB or HIGH INTEGRITY.
- To avoid a 'blackout' QFS-RRMFLEXI Consumer units should be installed in such a way that adjacent areas in the premises are not connected to the same RCCB (in particular lighting circuits).
- Care should be taken to balance circuits with high protective conductor currents so that residual currents, including switching surges, will not trip the RCCBs.

Part No.	Description	Dimensions (mm)		
		H	W	D
QFS-RRM14FLEXI	100A m/s + 2x 63A 30mA RCCB 8way (max. 2way on m/s)	230	327	110
QFS-RRM18FLEXI	100A m/s + 2x 63A 30mA RCCB 12way (max. 2way on main switch)	230	397	110
QFS-RRM21FLEXI	100A m/s + 2x 63A 30mA RCCB 15way (max. 3way on m/s)	230	451	110
QFS-RRM24FLEXI	100A m/s + 2x 80A 30mA RCCB 18way (max. 4way on m/s) (DB)	230	292	122

MCBs & RCBOs to be ordered separately. See pages 14-18

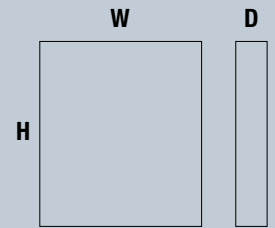


CONSUMER UNITS

INSULATED

POPULATED UNITS

- Populated consumer units supplied with a selection of MCBs or RCBOs.



POPULATED MCB UNITS

- On-site configuration as HIGH INTEGRITY.

Part No.	Description	MCBs	Dimensions (mm)		
			H	W	D
DF08L	100A m/s + 2x 63A 30mA RCCB 8way (max. 2way on m/s) c/w 8x MCBs	3 x 6A	230	327	110
		1 x 16A			
		3 x 32A			
		1 x 40A			
DF12L	100A m/s + 2x 63A 30mA RCCB 12way (max. 2way on main switch) c/w 10x MCBs	3 x 6A	230	397	110
		2 x 16A			
		4 x 32A			
		1 x 40A			



DF08L

POPULATED EXTRA HEIGHT RCBO UNIT

- Extra height enclosure enables easy fitting & connection.

Part No.	Description	MCBs	Dimensions (mm)		
			H	W	D
MR08	100A m/s 14way c/w 8x RCBOs	3 x 06A	272	362	110
		1 x 16A			
		3 x 32A			
		1 x 40A			



MR08

POPULATED RCBO UNIT

Part No.	Description	MCBs	Dimensions (mm)		
			H	W	D
MR05	100A m/s 10way c/w 5x RCBOs	2 x 06A	230	255	110
		1 x 16A			
		2 x 32A			



MR05

METAL CLAD

STANDARD	BS EN 60439-3 CE	MATERIAL	Sheet steel epoxy powder coated to RAL7035
OPERATING VOLTAGE	230V / 50Hz	ACCESSORY PACK	Pre-printed circuit identification labels Phase insulators Module blanks
MAXIMUM LOAD (A)	As indicated on incoming device		
PROTECTION DEGREE	IP2XC		
SHORT CIRCUIT WITHSTAND	16kA RMS (Backed up by a 100A fuse to BS1361 type 2)		

METAL MAIN SWITCH (100A) INCOMER

- Light grey finish.
- Extra height for single module RCBOs.
- Knockouts to top, bottom, back and sides 20, 25 & 32mm.
- Supplied complete with circuit identification labels, phase insulators & module blanks.

Part No.	Description	Dimensions (mm)		
		H	W	D
QFS-MX04M	m/s 2way	270	135	104
QFS-MX08M	m/s 6way	270	210	104
QFS-MX12M	m/s 10way	270	280	104
QFS-MX16M	m/s 14way	270	350	104



QFS-MX08M

METAL RCCB / RCD INCOMER

- Knockouts to top, bottom, back and sides 20, 25 & 32mm.

Part No.	Description	Dimensions (mm)		
		H	W	D
QFS-MX04R	63A 30mA 2way	270	135	104
QFS-MX08R	63A 30mA 6way	270	210	104
QFS-MX12R	80A 30mA 10way	270	280	104



QFS-MX12R

MCBs & RCBOs to be ordered separately. See pages 14-18

CONSUMER UNITS

MODULAR ENCLOSURES



E-GARAGE(63)



E-GARAGE(MS)

INSULATED GARAGE UNITS (IP55)

- Supplied c/w RCCB or main switch & MCBs.
- Suitable for garages, caravans, sheds or small extensions.

Part No.	Description	Dimensions (mm)		
		H	W	D
E-GARAGE(63)	63A 30mA RCCB + B16/B6 MCBs	226	118	96
E-GARAGE(MS)	100A main switch + B16/B6 MCBs	226	118	96

METAL GARAGE UNITS

- 4 Module enclosure supplied c/w RCCB or main switch, 16A & 6A MCBs.
- For protection of light & sockets circuits.

Part No.	Description	Dimensions (mm)		
		H	W	D
QFS-MCGARAGE(MS)	100A m/s + 16/6A MCBs	270	135	104
QFS-MCGARAGE(63)	63A 30mA RCCB + 16/6A MCBs	270	135	104



QFS-MCGARAGE(MS)

MCBs & RCBOs to be ordered separately. See pages 14-18



X4SU6350



SU-63B40 (4/55)

INSULATED SHOWER UNITS (IP20 & IP55)

- IP20 or IP55.
- Supplied c/w RCBO or RCCB & MCB.
- Used to provide isolation, short circuit & earth leakage protection.
- For showers up to 12kW.

Part No.	Description	Dimensions (mm)		
		H	W	D
X2SU-B40	40A 30mA RCBO (L+N switched) IP20	160	50	62
X4SU6340	63A 30mA RCCB + B40A MCB IP20	160	85	62
X4SU6350	63A 30mA RCCB + B50A MCB IP20	160	85	62
SU-63B40(4/55)	63A 30mA RCCB + B40A MCB IP55	226	118	96
SU-63B50(4/55)	63A 30mA RCCB + B50A MCB IP55	226	118	96

MCBs & RCBOs to be ordered separately. See pages 14-18



CONSUMER UNITS

MODULAR ENCLOSURES

INSULATED MODULAR ENCLOSURES (IP20)

- Suitable for single module RCBOs.
- Suitable for housing RCBOs, MCBs, main switches & RCCBs.
- Do not have earth & neutral terminal bars.

Part No.	Description	Dimensions (mm)		
		H	W	D
X2MOD	2 module housing (extra height)	160	50	62
X4MOD	4 module housing (extra height)	160	85	62



X2MOD

X4MOD

INSULATED MODULAR ENCLOSURES (IP55)

- *Suitable for single module RCBOs except 12/55ENC.
- Knockouts top & bottom.
- Suitable for housing modular components.
- Supplied c/w earth & neutral terminal bars.
- 4/55ENC, 8/55ENC & 12/55ENC supplied c/w neutral cable & busbar.

Part No.	Description	Dimensions (mm)		
		H	W	D
4/55ENC	4 module IP55 enclosure	226	118	102
8/55ENC	8 module IP55 enclosure	226	193	102
12/55ENC	12 module IP55 enclosure*	195	258	102
9/55CU-ENC	9 module IP55 enclosure	195	193	102



4/55ENC

8/55ENC

MCBs & RCBOs to be ordered separately. See pages 14-18

MODULAR ENCLOSURES
METAL MODULAR ENCLOSURES

- Suitable for single module RCBOs.
- Supplied c/w neutral cable, busbar, earth & neutral terminal bars.
- Knockouts to bottom, back and sides 20, 25, 32mm.

Part No.	Description	Dimensions (mm)		
		H	W	D
QFS-MC04ENC	4 module enclosure	270	135	104
QFS-MC08ENC	8 module enclosure	270	210	104
QFS-MC12ENC	12 module enclosure	270	280	104
QFS-MC16ENC	16 module enclosure	270	350	104
QFS-MC32ENC	32 module enclosure (DB)	600	458	120



QFS-MC08ENC

METAL DUAL RCCB

- Suitable for single module RCBOs.
- BS EN 60439-3 & CE compliant.
- On-site configuration as HIGH INTEGRITY.

Part No.	Description	Dimensions (mm)		
		H	W	D
QFS-MX12RRMFLEXI	100A m/s + 2x 63A 30mA RCCB 6way	270	280	104
QFS-MX16RRMFLEXI	100A m/s + 2x 63A 30mA RCCB 10way (max. 2way on m/s)	270	330	104



QFS-MX12RRMFLEXI

MODULAR ENCLOSURE (IP20)

- Suitable for single module RCBOs.
- No terminal bars.

Part No.	Description	Dimensions (mm)		
		H	W	D
4MODMC	4 module housing (extra height)	250	135	87



4MODMC

MCBs & RCBOs to be ordered separately. See pages 14-18



CONSUMER UNITS

MODULAR ENCLOSURES



E-06R(63)



E-03KWH

INSULATED RCCB INCOMER (IP55)

- IP55 enclosure supplied c/w RCCB.
- MCBs to be ordered separately.

Part No.	Description	Dimensions (mm)		
		H	W	D
E-06R(63)	63A 30mA RCCB 6way	226	193	96
E-06(MS)	m/s 6way	226	193	96
E-03KWH	kWh meter 40A 30mA RCCB 3way (max. load 40A)	226	193	96

METAL FIRE ALARM UNIT (IP40)

- For supply to fire alarm systems in commercial/industrial properties.
- Metal enclosure finished in red.
- Supplied c/w locking devices & hazard indicators to prevent unauthorised disconnection (padlocks not included).

Part No.	Description	Dimensions (mm)		
		H	W	D
FAU456	45A m/s + B6A MCB	250	135	87



MCBs & RCBOs to be ordered separately. See pages 14-18



ELECTRICAL INDUSTRIES

Circuit Protection

Circuit Protection



CIRCUIT PROTECTION

6kA MCBs

STANDARD BS EN 60898 **CE**
BREAKING CAPACITY 6kA
CIRCUIT 230/400V / 50/60Hz
RATED CURRENT Up to 63A

B TYPE To provide protection for cables, filament lighting circuits, heating loads and domestic applications. (3-5In)

C TYPE For small motor protection, fluorescent lighting circuits and industrial applications where nuisance tripping could be a problem. (5-10In)

6kA MINIATURE CIRCUIT BREAKERS

- 6kA breaking capacity.
- For use on 230/400V circuits with 63A max. rated current.
- BS EN 60898 compliant.
- Lock for MCBs, main switches, RCCBs & RCBOs.
Includes: Padlock / 3 keys / Yellow hazard indicator.

1pole B type Part No.	1pole C type Part No.	Description	Box Qty
EC-1B06	EC-1C06	6A	12
EC-1B10	EC-1C10	10A	12
EC-1B16	EC-1C16	16A	12
EC-1B20	EC-1C20	20A	12
EC-1B32	EC-1C32	32A	12
EC-1B40	EC-1C40	40A	12
EC-1B50	EC-1C50	50A	12
EC-1B63	EC-1C63	63A	12



EC-1B06 EC-1B16 EC-1B63



MCBLOCK

MCBLOCK Padlock / 3 keys / Yellow hazard indicator

6kA RCBO SINGLE MODULE

- Combined RCCB & MCB in one unit.
- Protects against earth leakage, overload & short circuits.
- 16mm² max. cable capacity.
- Blue lead can be shortened if required.
- BS EN 61009-1 compliant.

B type 30mA Part No.	C type 30mA Part No.	B type 10mA Part No.	Description
RCBO-06/30/SP	RCBO-06/30/1M/C	RCBO-06/10/1M	6A
RCBO-10/30/SP	RCBO-10/30/1M/C	RCBO-10/10/1M	10A
RCBO-16/30/SP	RCBO-16/30/1M/C	RCBO-16/10/1M	16A
RCBO-20/30/SP	RCBO-20/30/1M/C	RCBO-20/10/1M	20A
RCBO-32/30/SP	RCBO-32/30/1M/C	RCBO-32/10/1M	32A
RCBO-40/30/SP	RCBO-40/30/1M/C	RCBO-40/10/1M	40A
RCBO-50/30/SP	RCBO-50/30/1M/C	—	50A



RCBO-06/30/SP

RCBO-20/30/SP



10kA MCBs

STANDARD BS EN 60898 **CE**
BREAKING CAPACITY 10kA
CIRCUIT 230/400V, 50/60Hz
RATED CURRENT Up to 63A

B TYPE To provide protection for cables, filament lighting circuits, heating loads and domestic applications. (3-5In)
C TYPE For small motor protection, fluorescent lighting circuits and industrial applications where nuisance tripping could be a problem. (5-10In)
D TYPE For normal motor protection and transformer circuits where there is a very high inrush current or switching surges. (10-20In)

Circuit Protection



10kA MINIATURE CIRCUIT BREAKERS

- For protection against overload & short circuit.
- For protection of infrequent switching of circuits under normal conditions.
- BS EN 60898 compliant.

B type Part No.	1pole 10kA C type Part No.	D type Part No.	Box Qty	2pole 10kA D type Part No.	Box Qty	B type Part No.	3pole 10kA C type Part No.	D type Part No.	Box Qty	Description
-	LEB-1C01	LEB-1D01	12	-	6	-	-	-	4	1A
-	LEB-1C02	LEB-1D02	12	LEB-2D02	6	-	LEB-3C02	LEB-3D02	4	2A
-	LEB-1C04	LEB-1D04	12	LEB-2D04	6	-	LEB-3C04	LEB-3D04	4	4A
LEB-1B06	LEB-1C06	LEB-1D06	12	LEB-2D06	6	LEB-3B06	LEB-3C06	LEB-3D06	4	6A
LEB-1B10	LEB-1C10	LEB-1D10	12	LEB-2D10	6	LEB-3B10	LEB-3C10	LEB-3D10	4	10A
LEB-1B16	LEB-1C16	LEB-1D16	12	LEB-2D16	6	LEB-3B16	LEB-3C16	LEB-3D16	4	16A
LEB-1B20	LEB-1C20	LEB-1D20	12	LEB-2D20	6	LEB-3B20	LEB-3C20	LEB-3D20	4	20A
LEB-1B32	LEB-1C32	LEB-1D32	12	LEB-2D32	6	LEB-3B32	LEB-3C32	LEB-3D32	4	32A
LEB-1B40	LEB-1C40	LEB-1D40	12	LEB-2D40	6	LEB-3B40	LEB-3C40	LEB-3D40	4	40A
LEB-1B50	LEB-1C50	LEB-1D50	12	LEB-2D50	6	LEB-3B50	LEB-3C50	LEB-3D50	4	50A
LEB-1B63	LEB-1C63	LEB-1D63	12	LEB-2D63	6	LEB-3B63	LEB-3C63	LEB-3D63	4	63A

LEB-AUX Changeover side contact (LHS) for LEB MCB

MCBs 80A-125A

- Only suitable for mounting into TPN-EXT16 or QFS-MC32ENC.
- NOTE: 80A, 100A & 125A do not fit TPN distribution boards.

2pole C type Part No.	3pole D type Part No.	Description
CGD-2C80	CGD-3D80	80A
-	CGD-3D100	100A
-	CGD-3D125	125A

CDB2-AUX Changeover auxiliary side contact





CIRCUIT PROTECTION

RCCBs / RCDs

STANDARD	BS EN 61008-1	PEAK CURRENT CARRYING CAPACITY	3kA
OPERATING VOLTAGE	230/400V 50Hz	CONDITIONAL SHORT CIRCUIT CURRENT (100A FUSE)	10kA
RATING (A)	25A / 40A / 63A / 80A / 125A / 100A		
TRIPPING CURRENT	30mA / 100mA / 300mA		

2 POLE RCCB / RCD

- Not polarity sensitive.
- 'S type' time delayed approx 450ms @1I
- LINE at top & LOAD at bottom.
- 35mm² max. capacity cable.
- BS EN 61008-1 compliant.

30mA Part No.	100mA Part No.	S type Part No.	Description
25/30/2	25/100/2	25/100/2/S	25A
40/30/2	40/100/2	40/100/2/S	40A
63/30/2	63/100/2	63/100/2/S	63A
80/30/2	80/100/2	80/100/2/S	80A
-	-	100/100/2/S	100A



4 POLE RCCB / RCD

- 'S type' time delayed version.
- Neutral terminal on LHS.
- 35mm² max. capacity cable.
- 3 or 4 wire application - neutral not required on 25A, 40A, 63A, 80A and 100A versions.
- 125A needs neutral connected.
- BS EN 61008-1 compliant.

30mA Part No.	100mA Part No.	300mA Part No.	S type Part No.	Description
80/30/4	80/100/4	-	80/100/4/S	80A
-	-	100/300/4	100/100/4/S	100A
125/30/4	125/100/4	-	-	125A



An RCCB does not detect over-current or short circuits and should be used in conjunction with a MCB.



6kA 2 POLE RCBO

- 2 module RCBO.
- Protects against earth leakage, overload & short circuits.
- Suitable for use on 110-230V circuits.
- Live & neutral poles switched.
- 16mm² max. cable capacity.
- BS EN 61009-1 compliant.

B type 30mA Part No.	C type 30mA Part No.	Description
RCBO-B06/30/110-230	RCBO-C06/30/110-230	6A
RCBO-B10/30/110-230	RCBO-C10/30/110-230	10A
RCBO-B16/30/110-230	RCBO-C16/30/110-230	16A
RCBO-B20/30/110-230	RCBO-C20/30/110-230	20A
RCBO-B32/30/110-230	RCBO-C32/30/110-230	32A
RCBO-B40/30/110-230	RCBO-C40/30/110-230	40A
2PB-1P	2pole busbar 100A (insulated) 1m	



RCBO-B40/30/110-230



RCBO-C40/30/110-230

6kA 4 POLE RCBO

- 4 module RCBO.
- Protects against earth leakage, overload & short circuits.
- Suitable for use on 400V circuits.
- Live & neutral poles switched.
- 16mm² max. cable capacity.
- BS EN 61009-1 compliant.

C type 30mA Part No.	Description
RCBO-C06/4P	6A
RCBO-C10/4P	10A
RCBO-C16/4P	16A
RCBO-C20/4P	20A
RCBO-C32/4P	32A
RCBO-C40/4P	40A

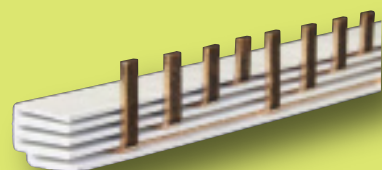


RCBO-C06/4P



RCBO-C40/4P

4PB-1P 4pole busbar 100A (insulated) 1m



4PB-1P

CIRCUIT PROTECTION

TORQUE SCREWDRIVER

- Dedicated MCB (VDE) adaptor screwdriver bit.
- Compact & lightweight design with soft grip ergonomic handle.
- Audible click upon torque setting attainment & 10 year design life.
- IEC 60900 / BS26789 / ASME B 107.14M / VDE standards.
- Up to 1000v AC or 1500v DC.

Part No.	Description
TORQ	2 part torque screwdriver 1.0 to 5.0Nm



- We recommend using a resettable calibrated torque screwdriver to install our circuit protection devices, as required by the 17th Edition Wiring Regs (134.1.1) See data table below for setting values.

RECOMMENDED TIGHTENING TORQUE

	Terminal Capacity	Nm
Main Switches		
1002P	50mm ²	2.5Nm
1252P	50mm ²	2.5Nm
1004P	50mm ²	2.5Nm
1254P	50mm ²	2.5Nm
RCCBs		
2Pole	35mm ²	2.0 - 2.5Nm
4Pole	35mm ²	2.0 - 2.5Nm
Miniature Circuit Breakers		
EC-1B6-B63	16mm ²	2.0Nm
LEB-1B6-3D63	16mm ²	2.0Nm
CGD-80/125A	50mm ²	4.0Nm
RCBOs		
Single Module	16mm ²	2.0 - 2.5Nm
2 Module	16mm ²	2.0 - 2.5Nm
Earth + Neutral Terminals		
		2.0Nm
Installation Contactors		
IC20	4mm ²	1.5Nm
IC24/4	4mm ²	1.5Nm
IC40/2	16mm ²	3.5Nm
IC63/4	16mm ²	3.5Nm
Accessories		
Time Clocks	4mm ²	1.5Nm
Bell Transformers	4mm ²	1.5Nm



ELECTRICAL INDUSTRIES

TP&N Distribution

TP&N Distribution

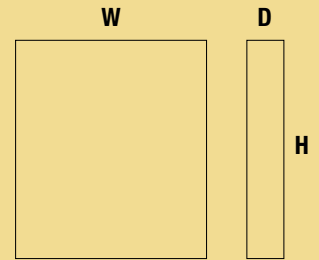


DISTRIBUTION BOARDS

TP&N DISTRIBUTION

INCOMER	125A 4pole main switch	ACCESSORY PACK	Phase insulators (6) Module blanks (12)
BUSBAR RATING	250A	STANDARD	BS EN 60439-3
RATED VOLTAGE	415V AC 50/60Hz	PROTECTION DEGREE	IP40
STEEL GUAGE	1.2mm	SHORT CIRCUIT WITHSTAND	16kA RMS (backed-up by a 100A fuse to BS1361 type2)
GLAND PLATES	Removable top & bottom		

- All versions supplied with 125A 4pole main switch.
- 3phase distribution boards offer 4, 8, 12 & 16way units.
- Modern style finished in epoxy powder paint to RAL 7035.
- Quicker installation with earth & neutral terminals adjacent to the MCBs / RCBOs.
- Range of options available including RCCB incomer, RCBOs & accessories.



Part No.	Description	Dimensions (mm)		
		H	W	D
E-TPN04	4way 125A m/s	500	458	120
E-TPN08	8way 125A m/s	600	458	120
E-TPN12	12way 125A m/s	700	458	120
E-TPN16	16way 125A m/s	800	458	120

MCBs, 4pole RCCBs & single module RCBOs to be ordered separately. See pages 14-15.

TP&N DISTRIBUTION

EXTENSION BOARD

- Supplied c/w earth & neutral terminals.
- 16module extension board for E-TPN range.
- For mounting modular accessories.
- Removable gland plates top & bottom.

Part No.	Description	Dimensions (mm)		
		H	W	D
TPN-EXT16	16module extension board for E-TPN	600	458	132

SINGLE PHASE LINK

- Converts E-TPN04-E-TPN16 to single phase.
- Only for use on 4pole main switches, not for use on 4pole RCCBs.

Part Number	Description
TPN-SPL	Single phase copper link 250A IP20 terminal shroud for 4pole m/s incomer

RCCB INCOMER FITTING KIT

- Fitting kit for RCCB into E-TPN.

Part Number	Description
TPNRCCBKIT	Fitting kit for RCCB into E-TPN



TP&N Distribution

METER BOARD

- CT connected meter board for mounting below 125A TP&N distribution boards.
- Used to measure: phase voltage, current, kWh, kW per phase, kVAR, power factor.
- BS EN 62053-21 compliant.
- Accuracy Class I.

METER BOARD (TP&N)

- 6+2 digit LCD display & IR port.
- 16bit CRC protocol.

Part No.	Description	Dimensions (mm)		
		H	W	D
TPN-MB125MODBUS	125/5 CT MOD BUS meter board	357	457	110





CIRCUIT PROTECTION

10kA MCBs

STANDARD BS EN 60898 **CE**
BREAKING CAPACITY 10kA
CIRCUIT 230/400V, 50/60Hz
RATED CURRENT Up to 63A

B TYPE To provide protection for cables, filament lighting circuits, heating loads and domestic applications. (3-5In)

C TYPE For small motor protection, fluorescent lighting circuits and industrial applications where nuisance tripping could be a problem. (5-10In)

D TYPE For normal motor protection and transformer circuits where there is a very high inrush current or switching surges. (10-20In)



10kA MINIATURE CIRCUIT BREAKERS

- For protection against overload & short circuit.
- For protection of infrequent switching of circuits under normal conditions.
- BS EN 60898 compliant.

B type Part No.	1pole 10kA C type Part No.	D type Part No.	Box Qty	2pole 10kA D type Part No.	Box Qty	B type Part No.	3pole 10kA C type Part No.	D type Part No.	Box Qty	Description
-	LEB-1C01	LEB-1D01	12	-	6	-	-	-	4	1A
-	LEB-1C02	LEB-1D02	12	LEB-2D02	6	-	LEB-3C02	LEB-3D02	4	2A
-	LEB-1C04	LEB-1D04	12	LEB-2D04	6	-	LEB-3C04	LEB-3D04	4	4A
LEB-1B06	LEB-1C06	LEB-1D06	12	LEB-2D06	6	LEB-3B06	LEB-3C06	LEB-3D06	4	6A
LEB-1B10	LEB-1C10	LEB-1D10	12	LEB-2D10	6	LEB-3B10	LEB-3C10	LEB-3D10	4	10A
LEB-1B16	LEB-1C16	LEB-1D16	12	LEB-2D16	6	LEB-3B16	LEB-3C16	LEB-3D16	4	16A
LEB-1B20	LEB-1C20	LEB-1D20	12	LEB-2D20	6	LEB-3B20	LEB-3C20	LEB-3D20	4	20A
LEB-1B32	LEB-1C32	LEB-1D32	12	LEB-2D32	6	LEB-3B32	LEB-3C32	LEB-3D32	4	32A
LEB-1B40	LEB-1C40	LEB-1D40	12	LEB-2D40	6	LEB-3B40	LEB-3C40	LEB-3D40	4	40A
LEB-1B50	LEB-1C50	LEB-1D50	12	LEB-2D50	6	LEB-3B50	LEB-3C50	LEB-3D50	4	50A
LEB-1B63	LEB-1C63	LEB-1D63	12	LEB-2D63	6	LEB-3B63	LEB-3C63	LEB-3D63	4	63A

LEB-AUX Changeover side contact (LHS) for LEB MCB

MCBs 80A-125A

- Only suitable for mounting into TPN-EXT16 or QFS-MC32ENC.
- NOTE: 80A, 100A & 125A do not fit TPN distribution boards.

2pole C type Part No.	3pole D type Part No.	Description
CGD-2C80	CGD-3D80	80A
-	CGD-3D100	100A
-	CGD-3D125	125A

CDB2-AUX Changeover auxiliary side contact





ELECTRICAL INDUSTRIES

Accessories

Accessories

ACCESSORIES

MAIN SWITCH

- 100A, 125A rated current.
- 230/400V rated voltage.
- 10,000 cycles electrical life.
- 10,000 operations mechanical life.
- 50mm² max. cable capacity.

Part No.	Description
1002P	100A (AC22A) 2pole m/s
1252P	125A (AC22A) 2pole m/s
1004P	100A (AC22A) 4pole m/s
1254P	125A (AC22A) 4pole m/s



1002P

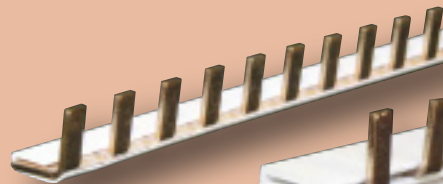


1254P

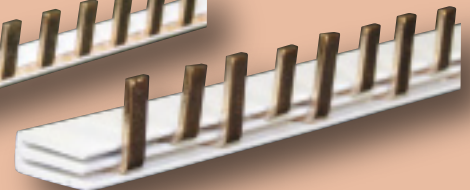
BUSBAR

- Insulated busbar.
- 100A pin type.
- Supplied in 1m lengths.

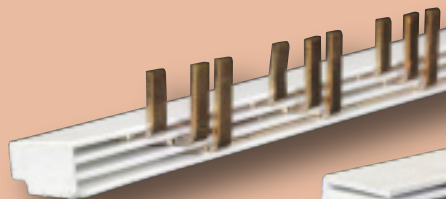
Part No.	Description	Length
SPB-1P	1pole insulated pin busbar 100A	1m
2PB-1P	2pole insulated pin busbar 100A	1m
3PB-1P	3pole insulated pin busbar 100A	1m
4PB-1P	4pole insulated pin busbar 100A	1m
BEC100SP	End cap for SPB-1P	
BEC1003P	End cap for 3PB-1P	



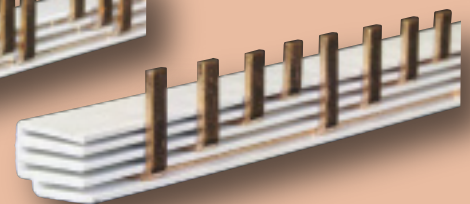
SPB-1P



2PB-1P



3PB-1P



4PB-1P

MCB LOCK

- Lock for MCBs, main switches, RCCBs & RCBOs.
- Can be locked in the 'ON' or 'OFF' position.
- Includes: Padlock / 3 keys / Yellow hazard indicator.
- NOT suitable for 80A, 100A & 125A MCBs.

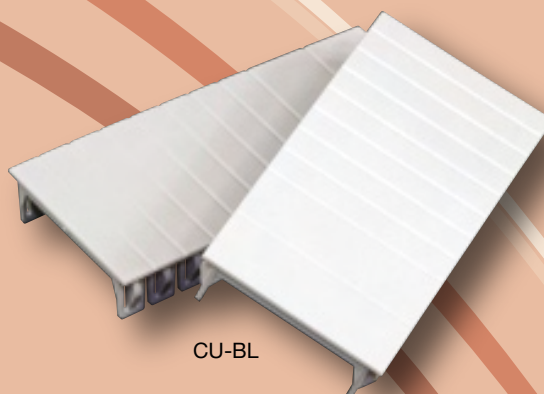
Part No.	Description
MCBLOCK	Padlock / 3 keys / Yellow hazard indicator



MCBLOCK

MODULE BLANKS

Part No.	Description
CU-BL	Module blanks 2x strips / 6 per strip



CU-BL

TIME SWITCHES

- Voltage free contacts.
- Range of 1 & 2 module devices.
- Capable of switching 16(4)A.
- 230V / 50Hz DIN rail mounting.
- Suitable for housing within our Consumer Unit range or modular enclosures (see pages 10-11).

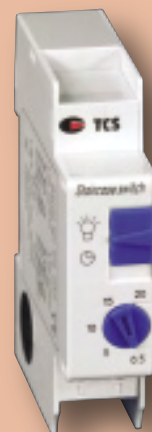
Part No.	Description
TC1M	24hr / 72hr reserve / 15min segments 16(4)A / max. cable 4mm ²
DTC	DIGITAL 7 day / 1 channel / 150hr reserve 8 on / 8 off memory locations 16(4)A / max. cable 4mm ²
TCS	Staircase timer 30sec to 20min / 230V/50Hz 16(4)A / Pulse trigger / max. cable 4mm ²



TC1M



DTC



TCS

TIME CLOCKS

Accessories



ACCESSORIES

CONTACTORS

INSTALLATION CONTACTORS

- N/O poles.
- 230V AC contactor for domestic applications & DIN rail mounting.
- Suitable for housing within a consumer unit or modular enclosure.
- When mounted beside other components on a DIN rail a heat dissipation module (CU-HDM [supplied]) must be interposed.
- BS EN 60947-4-1 compliant.

Part No.	IC20	IC40/2	IC24/4	IC63/4
Number of poles	2	2	4	4
Rated current Ith	20A	40A	24A	63A
Heating				
Single phase 230V	4kW	8.4kW	5.4kW	13kW
3 phase 400V	N/A	N/A	16kW	40kW
Motor				
Single phase 230V	1.2kW	2.4kW	1.5kW	3.8kW
3 phase 400V	N/A	N/A	4kW	11kW
Lighting				
Fluorescent (electronic ballast)	2000W	4200W	2400W	6300W
Incandescent and halogen	2800W	7000W	3500W	10000W
Coil rating / 50Hz	230V	230V	230V	230V

Part No.	Description
IC20	20A 230V 2pole N/O max. cable 4mm ²
IC40/2	40A 230V 2pole N/O max. cable 10mm ²
IC24/4	24A 230V 4pole N/O max. cable 4mm ²
IC63/4	63A 230V 4pole N/O max. cable 16mm ²



TIME CONTROLLED CONTACTOR 40A (IP55)

- 40A 2pole contactor controlled by electromechanical timeclock.
- 24hr drum, 72hr reserve, 15min segments.
- Manual over ride switch.
- Ideal for switching lights, heating etc.

Part No.	Description	Dimensions (mm)		
		H	W	D
LU-40	40A 2pole N/O contactor switched by TC1M (IP55)	192	117	102



LU-40

BELL TRANSFORMER

RATED VOLTAGE (PRIMARY)	230V / 50Hz
RATED VOLTAGE (SECONDARY)	8V, 12V & 24V
RATED OUTPUT CURRENT	1A / 8V 0.67A / 12V 0.33A / 24V
MAXIMUM CABLE CAPACITY STANDARD	4mm ² BS EN 61558-1 compliant

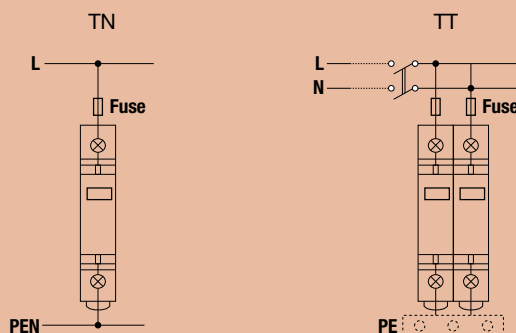
NOTE Bell Transformer should be connected in series with an MCB not exceeding 6A

Part No.	Description
BT	230V bell transformer 8V / 1A 2 module



SURGE SUPPRESSOR (SPD)

IMAX	40kA Class II
UC	385V
In	20kA
Un	230V
Up	1.8kA
MAXIMUM CABLE CAPACITY STANDARD	35mm ² IEC 61643-1



- Designed to fit into our range of Consumer Units.
- Provide protection against switching surges.
- Protect against secondary effects of lightning in TN & TT systems.

Part No.	Description
SS40	40kA 1pole surge suppressor
SS402P	40kA 2pole surge suppressor
SS404P	40kA 4pole surge suppressor
SS40RC	1pole + 2pole replacement cartridge
SS40RC4P	4pole replacement cartridge





ACCESSORIES

kWh METER

STANDARD IEC 62053
NOMINAL VOLTAGE 230V / 50Hz
MINIMUM CURRENT 0.02A
CONSUMPTION Less than 2VA
INTERFACE Open collector output (SO) 5-27V DC 27mA DC

MOUNTING DIN rail
PROTECTION IP20 sealable terminals
MAXIMUM CABLE CAPACITY KWHM1MLCD 6mm²
 KWHM2M 16mm²
 KWHM100 25mm²

SINGLE PHASE DIRECT CONNECTED kWh METER

- Meters are not MID approved & therefore cannot be used to charge.
- Ideal for monitoring energy consumption in rented properties, caravans, garages.

Part No.	Description
KWHM2M	65A kWh meter (2module)
KWHM1MLCD	45A kWh meter LCD display (1module)
KWHM100	100A kWh meter LCD display (2module)



KWHM2M



KWHM1MLCD



KWHM100

STANDARD IEC 62053
NOMINAL VOLTAGE 230V / 400V AC
MINIMUM CURRENT 0.08A
CONSUMPTION <2W / 10VA per phase
INTERFACE Open collector output (SO) 5-27V DC 27mA DC

MOUNTING DIN rail
PROTECTION IP20 sealable terminals
MAXIMUM CABLE CAPACITY 25mm²

3 PHASE (4WIRE) DIRECT CONNECTED kWh METER

- Meters are not MID approved & therefore cannot be used to charge.
- Ideal for monitoring energy consumption in rented properties, caravans, garages.

Part No.	Description
KWHM3P100	100A kWh meter LCD display (4module) 3phase 4wire



KWHM3P100



ELECTRICAL INDUSTRIES

Isolators & Fused Switches

Isolators &
Fused Switches



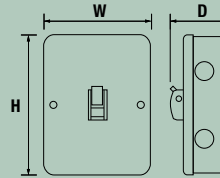
ISOLATORS & FUSED SWITCHES

ROTARY ISOLATORS

METAL ISOLATOR SWITCH 4P 32A

- 4pole 32A for isolating incoming supplies.
- 20mm knockouts top, bottom & side.
- Padlockable in OFF position (not included).
- BS EN 60947-3 compliant.

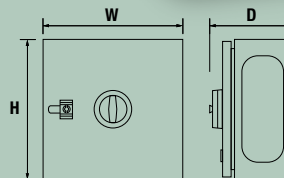
Part No.	Description	Dimensions (mm)		
		H	W	D
M324P	32A (AC22A) 4pole	110	145	55



METAL ROTARY ISOLATORS 4P (IP65)

- Robust steel enclosure.
- Generous cabling space.
- Door interlock to prevent access to live conductors.
- Lockable in OFF position with 3 padlocks (not included).
- AC21 for switching of resistive loads.
- AC22A for switching of mixed resistive & inductive loads.
- Rated short circuit making capacity: 3000A.
- Rated withstand current: 12In 1second.
- BS EN 60947-3 compliant.

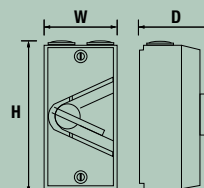
Part No.	Description	Dimensions (mm)		
		H	W	D
S323P	32A (AC21) / 25A (AC22A)	250	250	175
S633P	63A (AC21) / 40A (AC22A)	250	250	175
S1003P	100A (AC21) / 180A (AC22A)	250	250	175
S1253P	125A (AC21) / 100A (AC22A)	250	250	175



INSULATED HI-VIS ISOLATORS 4P (IP56)

- 4pole enclosed isolators (IP56).
- High visibility.
- Supplied c/w 4x 25mm entries & 2x 20mm adaptors for easy installation.
- Padlockable in ON or OFF position (not included).
- AC22A for switching of mixed resistive & inductive loads.
- BS EN 60947-3 compliant.

Part No.	Description	Dimensions (mm)		
		H	W	D
ISO-20	20A (AC22A) 4pole	175	85	88
ISO-35	35A (AC22A) 4pole	175	85	88
ISO-63	63A (AC22A) 4pole	175	85	88



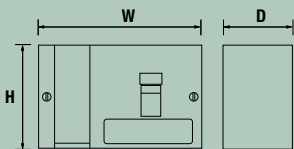


ISOLATORS & FUSED SWITCHES

100A FUSED SWITCH 2P

- 100A / AC21.
- Supplied c/w cable duct.
- Ideal for the protection & isolation of incoming supplies up to 100A.
- Supplied c/w 80A & 100A fuses – gG general purpose fuse for conductor protection.
- 35m² max. cable capacity.
- BS EN 60947-3 compliant.

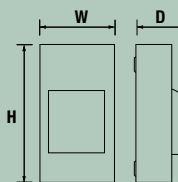
Part No.	Description	Dimensions (mm)		
		H	W	D
MSF100	100A fused switch (AC21) inc. 80A & 100A fuses + cable duct (22x58 IEC 60269-2)	80	127	54
MSF100(CD)	Cable duct for MSF100			



METAL 100A FUSED SWITCH 2P

- Single phase & switched neutral.
- Ideal for the protection & isolation of incoming supplies.
- Supplied c/w 63A, 80A + 100A fuses – gG general purpose fuse for conductor protection.
- 25/32mm knockouts top & bottom.
- 35mm² max. cable capacity.
- BS EN 60439-3 compliant.

Part No.	Description	Dimensions (mm)		
		H	W	D
FS6380100	100A fused switch (metal / AC21) inc. 63A, 80A & 100A fuses (22x58 IEC 60269-2) gG	250	135	87



FUSES gG

- (gG) general purpose fuse for conductor protection.
- Replacement fuses for: MSF100 / FS6380100 / FS803P / FS1253P.
- IEC 60269-2.

Part No.	Description	Dimensions (mm)	
		H	W
F063A	63A gG	22	58
F080A	80A gG	22	58
F100A	100A gG	22	58
F125A	125A gG	22	58

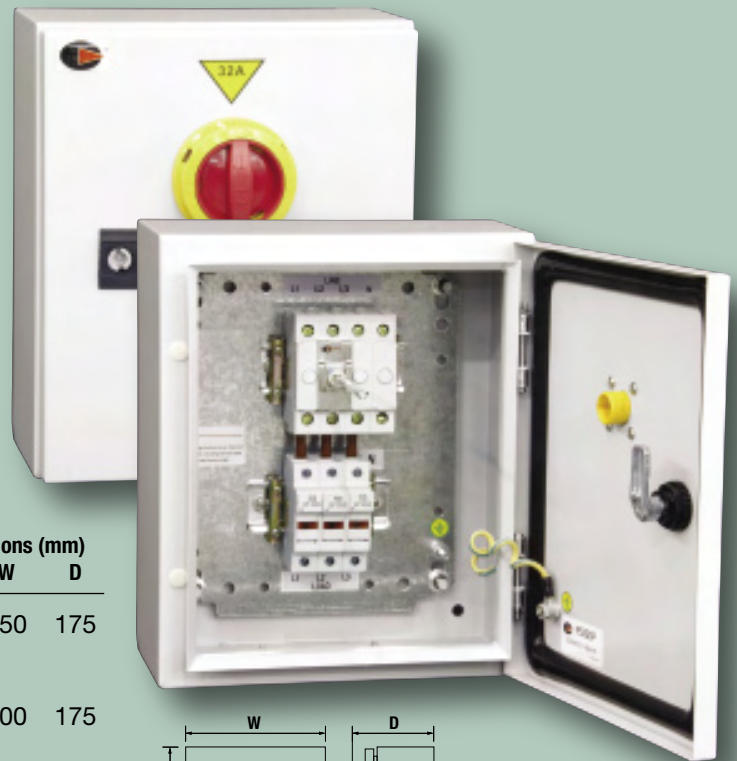


Isolators & Fused Switches

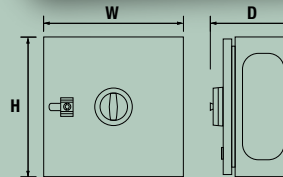
ISOLATORS & FUSED SWITCHES

METAL 3P FUSED SWITCH 32A-125A (IP65)

- 3phase + switched neutral.
- Robust steel enclosure.
- Generous cabling space.
- Door interlock to prevent access to live conductors.
- Lockable in OFF position with 3 padlocks (not included).
- AC21 for switching of resistive loads.
- Supplied c/w gG fuses (IEC 60269-2).
- Rated short circuit making capacity: 3000A.
- Rated withstand current: 12In 1second.
- 35mm² max. cable capacity.
- BS EN 60947-3 compliant.

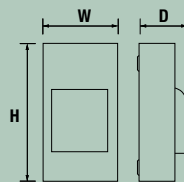


Part No.	Description	Dimensions (mm)		
		H	W	D
FS323P	32A (AC21) 3phase fused switch inc. 3x 32A gG fuses (10x38)	300	250	175
FS803P	80A (AC21) 3phase fused switch inc. 3x 63A & 3 x 80A gG fuses (22x58)	400	300	175
FS1253P	125A (AC21) 3phase fused switch inc. 3x 100A & 3 x 125A gG fuses (22x58)	400	300	175



METAL 125A CHANGEOVER SWITCH SINGLE PHASE

- Allows switching between single phase mains supply & standby generators for emergency services.
- Single phase & switched neutral.
- Robust metal enclosure.
- 25/32mm knockouts top & bottom.
- 50mm² max. cable capacity.
- BS EN 60439-3 compliant.

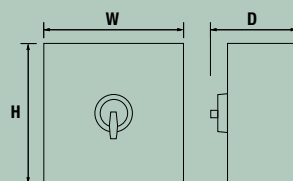


Part No.	Description	Dimensions (mm)		
		H	W	D
M125CS	125A (AC22A) 2pole mains/generatorchangeover switch	250	135	65



INSULATED 100A CHANGEOVER SWITCH 4P (IP65)

- Centre OFF position.
- IP65 plastic enclosure.
- Knockouts top & bottom.
- 35mm² max. cable capacity.
- IEC 60947-3.



Part No.	Description	Dimensions (mm)		
		H	W	D
CS/100/4P	100A (AC22A) 4pole changeover switch IP65	240	160	196





ELECTRICAL INDUSTRIES

Weatherproof Range

Weatherproof Range



WEATHERPROOF RANGE



IP65RCDSW

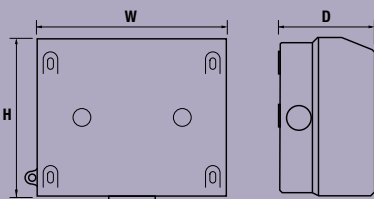


IP65WESS

SOCKETS (IP65)

- Grey polycarbonate enclosures.
- 20mm knockouts on all sides & back.
- Fitted with 2gang socket – protected & unprotected variations.

Part No.	Description	Dimensions (mm)		
		H	W	D
IP65RCDSW	IP65 RCD socket 13A 30mA Latching type	153	162	81
IP65WESS	IP65 Switched socket 13A	153	162	81





WEATHERPROOF RANGE



IP65WE1G



IP65WE2G

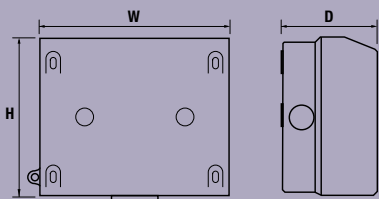


IP65WE-TWIN

ENCLOSURES (IP65)

- Grey polycarbonate enclosures.
- 20mm knockouts on all sides & back.
- Unit accepts standard single & twin sockets.
- Can be padlocked for extra security.

Part No.	Description	Dimensions (mm)		
		H	W	D
IP65WE1G	IP65 1gang enclosure	153	101	81
IP65WE2G	IP65 2gang enclosure	153	162	81
IP65WE-TWIN	IP65 2x 1gang enclosure	153	162	81

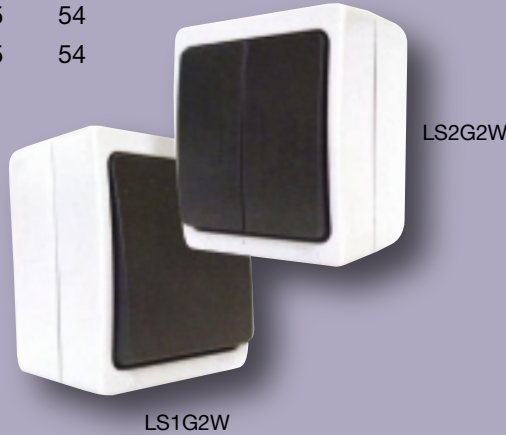
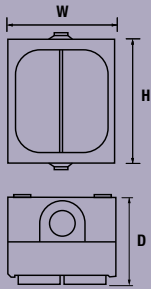


Weatherproof Range

WEATHERPROOF RANGE

LIGHT SWITCHES (IP54)

Part No.	Description	Dimensions (mm)		
		H	W	D
LS1G2W	1gang 2way 10A	84	65	54
LS2G2W	2gang 2way 10A	84	65	54



RCD SOCKETS



RCDSW



RCDSM

RCD SOCKETS 13A 30mA (LATCHING)

- Used to provide protection against risk of electrocution & fire hazards.
- Passive operation – does not trip on loss of power.
- BS7288 compliant.
- RCDSW version fits standard 25mm back box.

Part No.	Description
RCDSW	2gang White RCD socket 13A 30mA
RCDSM	2gang Metal RCD socket 13A 30mA (inc. back box)



ELECTRICAL INDUSTRIES

Control Gear

Control Gear



CONTROL GEAR

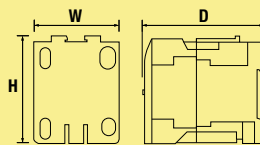
SELECTION CHART

			CU11	CU16	CU18		CN35		CU65		CN100
Rated Operating Current (A)	380V	AC3	12	16	22		40		64/72		105
	660V	AC3	7	10	14		26		45/60		75
Rated working voltage (Ue) V			380 660								
Rated Isolating voltage (Ui) V			690								
Thermal current (Ith) (A)			25	25	32		60		80		135
3Phase AC3 Rating kW	220V		3	4	5.5		11		18.5		30
	380V		5.5	7.5	11		20		30		55
	660V		5.5	7.5	11		22		37		65
Auxiliary Contact	Thermal current (A)		10								
	Rated control capacity		360VA (AC15 or 33W (DC13))								
	Minimum load		6V 10mA								
Coil	Rated control voltage (Uc) (V)		24, 110, 230, 400								
	Pick-up voltage (V)		0.8-1.1 Uc								
	Release voltage (V)		0.2-0.75 Uc								
	Pick-up (VA)		70	70	82		215		280		300
	Sealed (VA)		12	12	15		27		32		63
	Power (W)		4	4	4		6		6-7.5		9-15

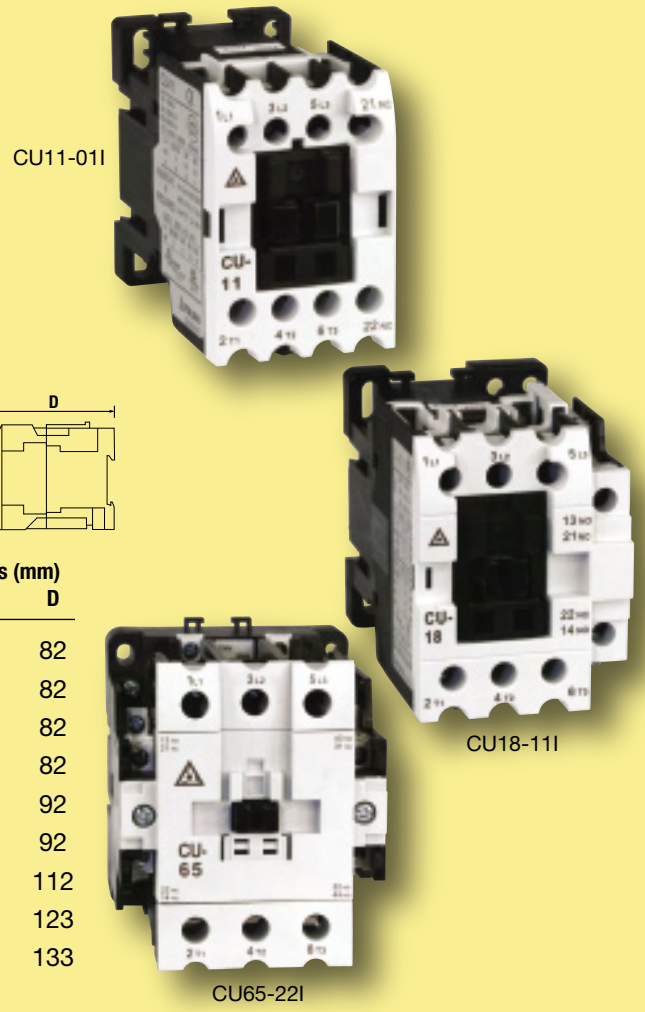
- 5.5kW – 55kW.
- Full range of overloads & accessories.
- BS EN 60947-4-1, C-UL & CE compliant.

CONTACTORS (N/O POLES)

- Fill in for coil voltage:
B 24V/50Hz
E 110V/50Hz
I 230V/50Hz
M 400V/50Hz
 i.e. CU16-10B



Part No.	Rating AC3 415V			Auxiliary Contacts	Dimensions (mm)		
	Ith	AC3 (A)	kW		H	W	D
CU11-10 <input type="checkbox"/>	25	11	5.5	1N/O	70	45	82
CU11-01 <input type="checkbox"/>	25	11	5.5	1N/C	70	45	82
CU11-4POLE <input type="checkbox"/>	25	11	5.5		70	45	82
CU16-10 <input type="checkbox"/>	25	15	7.5	1N/O	70	45	82
CU18-11 <input type="checkbox"/>	32	21	11	1N/O+1N/C	72	55	92
CU18-4POLE <input type="checkbox"/>	32	21	11		72	55	92
CU40-11 <input type="checkbox"/>	60	40	20	1N/O+1N/C	99	69	112
CU65-22 <input type="checkbox"/>	80	64	33	2N/O+2N/C	116	94	123
CN100-22 <input type="checkbox"/>	135	100	55	2N/O+2N/C	139	100	133

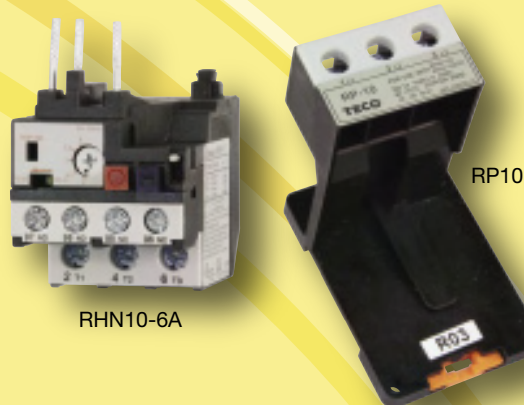


THERMAL OVERLOADS (CU11-CU18)

- Fill in for setting range.
i.e. RHN10-0.3-0.45

Part No.	Setting range (A)		
RHN10-<input type="checkbox"/>	0.3-0.45	0.45-0.67	0.67-1
	1-1.5	1.4-2.1	1.8-2.7
	2.4-3.6	3.5-5	4-6
	5.5-8.5	8.5-12.5	12.5-18
	17-24	22-30	

RP10 RHN10 DIN rail mounting block



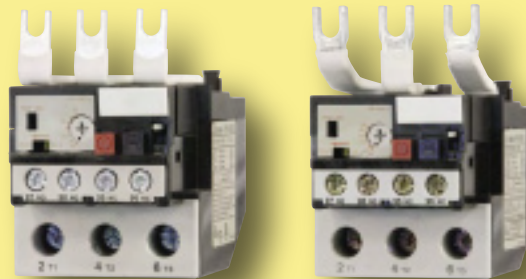
RHN10-6A

RP10

THERMAL OVERLOADS (CU40-CU65)

- When ordering please advise contactor to which RHN80 will be fitted.

Part No.	Setting range (A)
RHN80-32	23-32
RHN80-40	30-40
RHN80-50	37-50
RHN80-65	48-65
RHN80-80	63-80



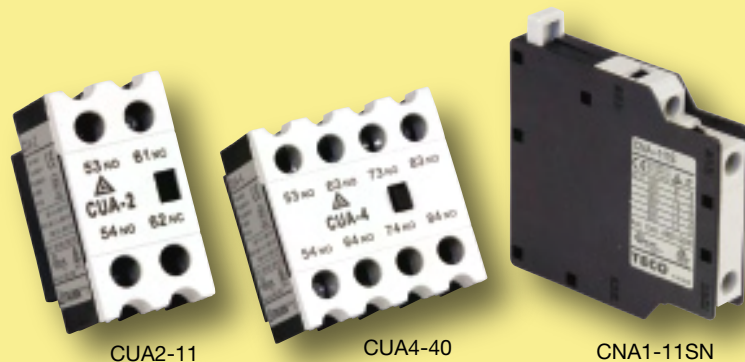
RHN80-32

RHN80-80

AUXILIARY CONTACTS

- 10A lth rated.

Part No.	Description
CUA2-11	1N/O+1N/C
CUA4-22	2N/O+2N/C
CUA4-40	4N/O
CUA4-04	4N/C
CNA1-11SN	1N/O+1N/C (CU11-CU40) side
CNA1-11B	1N/O+1N/C (CN100) side



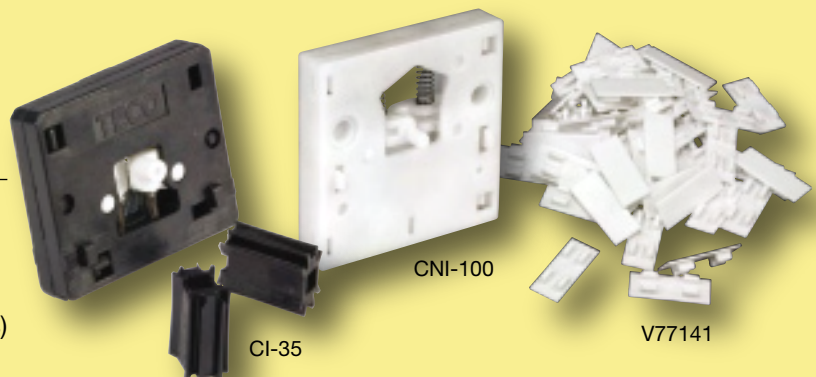
CUA2-11

CUA4-40

CNA1-11SN

MECHANICAL INTERLOCKS

Part No.	Description
CI-18	CU11-CU18
CI-35	CU40-CU65
CNI-100	CN100
V77141	ID marker for CU11-CU65 (50pcs)



CI-35

CNI-100

V77141

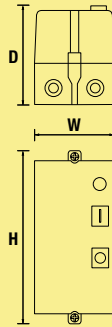


CONTROL GEAR

DIRECT ON-LINE STARTERS (IP65)

- 5.5kW – 11kW.

Part No.	Description	Dimensions (mm)		
		H	W	D
HUFB-11I	5.5kW / 25A / 230V coil	90	183	113
HUFB-11M	5.5kW / 25A / 400V coil	90	183	113
HUFB-18I	11kW / 32A / 230V coil	100	193	123
HUFB-18M	11kW / 32A / 400V coil	100	193	123



CONTACTORS IN A BOX

CON25 / 32

CONTACTOR	CU11-4I / CU18-4I
DESCRIPTION	4pole
THERMAL CURRENT (Ith)	25A / 32A
POWER RATING (415V)	5.5kW / 11kW
COIL VOLTAGE	230V / 50Hz
PICK UP VA	70 / 82
SEALED VA	12 / 15

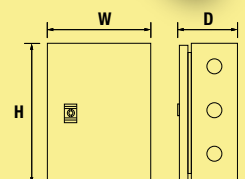
CON80

CONTACTOR	CU65-22I
DESCRIPTION	3pole
THERMAL CURRENT (Ith)	80A
POWER RATING (415V)	33kW
COIL VOLTAGE	230V / 50Hz
PICK UP VA	280
SEALED VA	32



- IP55 plastic enclosure (CON25 & CON32).
- IP65 metal enclosure (CON80).
- Ideal for heating & lighting applications.

Part No.	Description	Dimensions (mm)		
		H	W	D
CON25	25A Ith 5.5kW 4pole contactor (230V coil) IP55	200	100	110
CON32	32A Ith 11kW 4pole contactor (230V coil) IP55	200	100	110
CON80	80A Ith 33kW 3pole contactor & neutral terminal (230V coil) Metal IP65	300	250	200





LEWDEN ELECTRICAL INDUSTRIES

22mm Control Devices

22mm Control Devices



22mm CONTROL DEVICES

22mm LED PILOT LAMP (IP55)

- Long life, high intensity, direct connected.
- Available in red, green, yellow, white & blue at 24VAC/DC, 110V/50Hz & 230V/50Hz.
- Supplied as complete unit with encapsulated LED.
- 30,000hrs expected life.
- Fill in for voltage:
B 24V AC/DC
E 110V/50Hz
I 230V/50Hz
 i.e. AD22-RED 24V/50Hz

Part No.	Colour
AD22-R <input type="checkbox"/>	Red
AD22-G <input type="checkbox"/>	Green
AD22-Y <input type="checkbox"/>	Yellow
AD22-W <input type="checkbox"/>	White
AD22-B <input type="checkbox"/>	Blue



22mm LED PILOT LAMP WITH TEST FACILITY (IP55)

- Allows groups of lamps to be tested from a single pushbutton making maintenance easier & quicker.
- Fill in for voltage:
B 24V AC/DC
I 230V/50Hz
 i.e. TF-AD22-RED 24V/50Hz

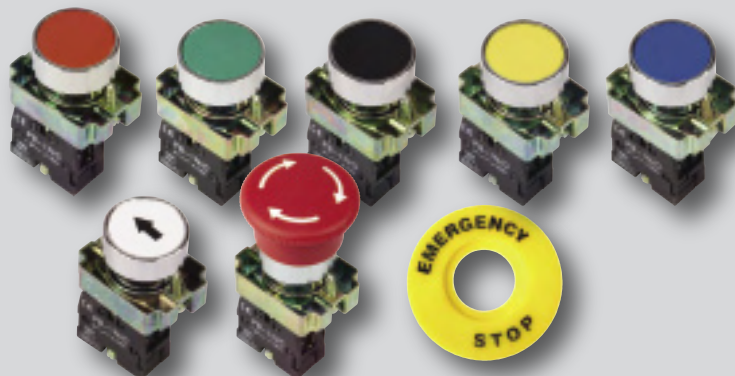
Part No.	Colour
TF-AD22-R <input type="checkbox"/>	Red
TF-AD22-G <input type="checkbox"/>	Green
TF-AD22-Y <input type="checkbox"/>	Yellow
TF-AD22-W <input type="checkbox"/>	White
TF-AD22-B <input type="checkbox"/>	Blue



22mm PUSHBUTTONS (IP55)

- Supplied c/w auxiliary contacts ready to install.
- Auxiliary contacts rated at 10A thermal.

Part No.	Description
PB-R	Red pushbutton + 1N/C
PB-G	Green pushbutton + 1N/O
PB-B	Black pushbutton + 1N/O
PB-Y	Yellow pushbutton + 1N/O
PB-BLUE	Blue pushbutton + 1N/O
PB-A	Arrow pushbutton + 1N/O
PB-ES	Emergency stop p/b (twist to reset) + 1N/C
PB-ESLP	Emergency stop legend plate 60mm



22mm SELECTOR SWITCHES

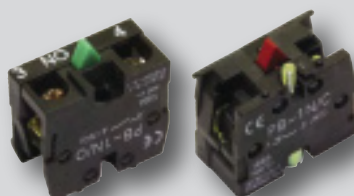
Part No.	Description
PB-2P	2 position switch + 2N/O
PB-3P	3 position switch + 2N/O



AUXILIARY BLOCKS (IP20)

- Rated at 10A thermal.

Part No.	Description
PB-1N/O	1N/O
PB-1N/C	1N/C

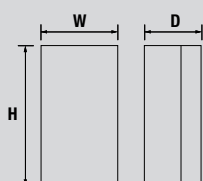


22mm CONTROL DEVICES



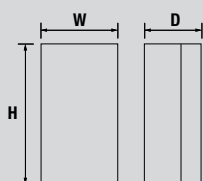
ENCLOSURES FOR 22mm DEVICES (IP55)

Part No.	Description	Dimensions (mm)		
		H	W	D
PB-1U	1 Unit enclosure	68	68	51
PB-2U	2 Unit enclosure	104	68	51
PB-3U	3 Unit enclosure	130	68	51



CONTROL STATIONS (IP55)

Part No.	Description	Dimensions (mm)		
		H	W	D
PB-ESS	Emergency Stop station	68	68	51
PE-ESKSS	E-STOP key switch station	68	68	51
PB-SSS	Start / Stop station	104	68	51
PB-UDS	Up / Down station	104	68	51
PB-USDS	Up / Stop / Down station	130	68	51

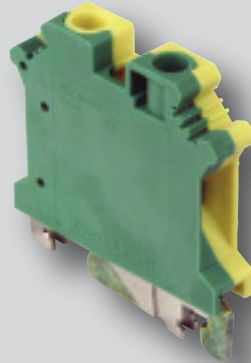




22mm CONTROL DEVICES

GREEN / YELLOW DIN RAIL TERMINALS

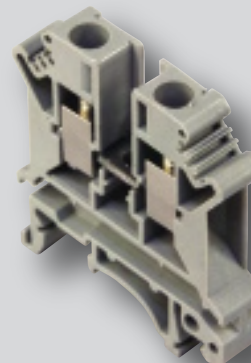
Part No.	Description	Rating (A)	Pack Qty
ET2.5	2.5mm ² Earth terminal	32A	50
ET4	4mm ² Earth terminal	41A	50
ET6	6mm ² Earth terminal	57A	50
ET10	10mm ² Earth terminal	76A	50
ET16	16mm ² Earth terminal	100A	40
ET35	35mm ² Earth terminal	125A	20



ET6

GREY DIN RAIL TERMINALS

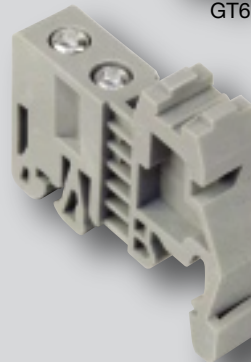
Part No.	Description	Qty
GT2.5	2.5mm ² Grey terminal	50
2.5JUMPERBAR	Jumperbar connects 10x GT2.5	10pcs
GT4	4mm ² Grey terminal	50
GT6	6mm ² Grey terminal	50
GT10	10mm ² Grey terminal	50
GT16	16mm ² Grey terminal	40
GT35	35mm ² Grey terminal	20
T-ES	End stop	50
T-EC	End cap to fit GT2.5-GT16	50
ID3	ID marker for 2.5mm terminal	100
ID5	ID marker for 4mm terminal	100
ID10	ID marker for 10mm terminal	100
ID16	ID marker for 16mm terminal	100
ID6/35	ID marker for 6/35mm terminal	100



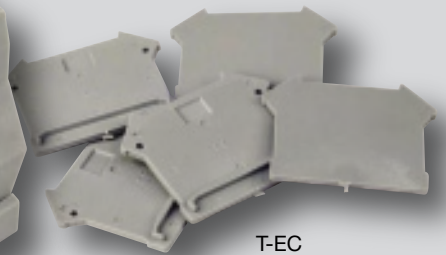
GT6



2.5JUMPERBAR



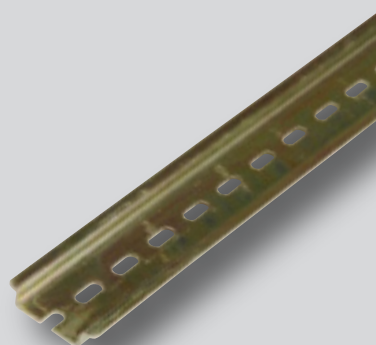
T-ES



T-EC

35MM TOP HAT DIN RAIL

Part No.	Description
DINRAIL	Slotted DIN rail 35mm top hat 5x 1m length



DINRAIL



ELECTRICAL INDUSTRIES

Wall Mounting Enclosures



ENCLOSURES

STEEL ENCLOSURES (IP65)

- Supplied c/w zinc plated steel backplate.
- 1.2mm sheet steel.
- Epoxy powder coated RAL7035.
- Polyurethane gasket.
- Reversible door.
- Recessed gland plate.



DOOR GASKET



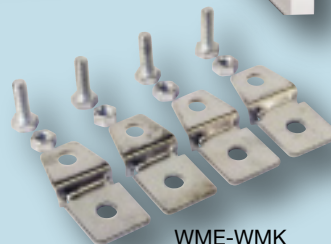
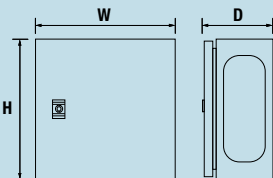
GLAND PLATE



EARTH

Part No.	Dimensions (mm)		
	H	W	D
WME-3025/200	300	250	200
WME-33/150	300	300	150
WME-43/150	400	300	150
WME-44/200	400	400	200
WME-64/200	600	400	200
WME-65/200	600	500	200
WME-66/200	600	600	200
WME-75/200	700	500	200
WME-86/200	800	600	200
WME-86/300	800	600	300

WME-WMK Wall mounting kit for WME
WME-KL Keylock for WME



WME-WMK



WME-KL

ENCLOSURES

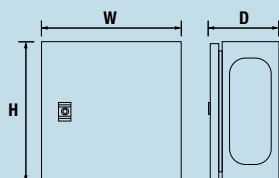
STEEL ENCLOSURES (IP65)

STAINLESS STEEL 304 ENCLOSURES (IP65)

- Supplied c/w zinc plated steel backplate.

Part No.	Dimensions (mm)		
	H	W	D
SSE-2525/150	250	250	150
SSE-3025/200	300	250	200
SSE-33/150	300	300	150
SSE-43/150	400	300	150
SSE-44/200	400	400	200
SSE-54/200	500	400	200

WME-KL Keylock for SSE



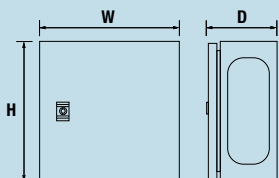
GRP ENCLOSURES (IP65)

- Supplied c/w zinc plated steel backplate.

Part No.	Dimensions (mm)		
	H	W	D
GRP-302514	300	250	140
GRP-403020	400	300	200
GRP-504020	500	400	200
GRP-604023	600	400	230
GRP-605023	600	500	230
GRP-806030	800	600	300

GRP-WMK Wall Mounting Kit

GRP-KL Key Lock



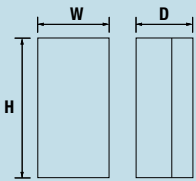


ENCLOSURES

PLASTIC ENCLOSURES (IP55)

- Supplied c/w backplate & DIN rail.
- Knockouts top, bottom & sides.

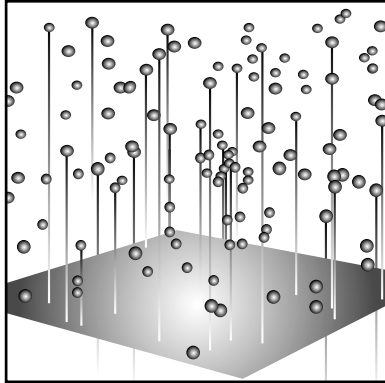
Part No.	Dimensions (mm)		
	H	W	D
ENC201011	200	100	110



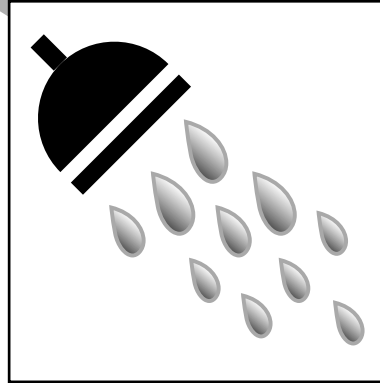


IP PROTECTION DEGREE

IP-



1st Number:
Protection against solid objects



2nd Number:
Protection against liquids

- | | | | |
|--|----------|----------|--|
| No protection | 0 | 0 | No protection |
| Protection against solid objects over 50mm | 1 | 1 | Protected against vertically falling drops of water |
| Protection against solid objects over 12mm | 2 | 2 | Protected against direct sprays of water up to 15° from the vertical |
| Protection against solid objects over 2.5mm | 3 | 3 | Protected against direct sprays of water up to 60° from the vertical |
| Protection against solid objects over 1mm | 4 | 4 | Protected against water sprayed from all directions |
| Protection against dust (no harmful deposit) | 5 | 5 | Protected against low pressure jets of water sprayed from all directions |
| Totally protected against dust | 6 | 6 | Protected against strong pressure jets of water |
| | | 7 | Protected against immersion in water |
| | | 8 | Protected against long periods of immersion under pressure |



PART NUMBER INDEX

100/100/2/S	16	CON25	40	ET6	44	LEB-1B06	15, 22
100/100/4/S	16	CON32	40	E-TPN04	20	LEB-1B10	15, 22
100/300/4	16	CON80	40	E-TPN08	20	LEB-1B16	15, 22
1002P	24	CS/100/4P	32	E-TPN12	20	LEB-1B20	15, 22
1004P	24	CU11-01	38	E-TPN16	20	LEB-1B32	15, 22
12/55ENC	10	CU11-10	38	F063A	31	LEB-1B40	15, 22
125/100/4	16	CU11-4POLE	38	F080A	31	LEB-1B50	15, 22
125/30/4	16	CU16-10	38	F100A	31	LEB-1B63	15, 22
1252P	24	CU18-11	38	F125A	31	LEB-1C01	15, 22
1254P	24	CU18-4POLE	38	FAU456	12	LEB-1C02	15, 22
2.5JUMPERBAR	44	CU40-11	38	FS1253P	32	LEB-1C04	15, 22
25/30/2	16	CU65-22	38	FS323P	32	LEB-1C06	15, 22
2PB-1P	17	CUA2-11	39	FS6380100	31	LEB-1C10	15, 22
2PB-1P	24	CUA4-04	39	FS803P	32	LEB-1C16	15, 22
3PB-1P	24	CUA4-22	39	GRP-302514	47	LEB-1C20	15, 22
4/55ENC	10	CUA4-40	39	GRP-403020	47	LEB-1C32	15, 22
40/30/2	16	CU-BL	25	GRP-504020	47	LEB-1C40	15, 22
4MODMC	11	CU-HDM	26	GT10	44	LEB-1C50	15, 22
4PB-1P	17	DF12L	6	GT16	44	LEB-1C63	15, 22
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TERMS & CONDITIONS OF SALE

1. General

Lewden (hereinafter called 'the Vendor') sells its products only upon the conditions set out below. No variation of these conditions will alter the contractual liability of the parties unless such variation is in writing signed by a duly authorised agent or employee of the Vendor.

2. Prices

a) Orders are accepted at the prices ruling at the date of dispatch of the goods.

b) A 'fixed price' quotation will be held for the time stated in the quotation but will apply only to the quantities and products quoted for.

3. Terms of Payment

a) Terms of payment as agreed shall be strictly adhered to and any settlement discounts agreed will only be allowed provided payment falls strictly within the agreed settlement period.

b) Overdue accounts are chargeable with interest compounded pro rata at the rate of 15% p.a. or at such other rate of interest as shall from time to time be announced by the Vendor and will be applied or otherwise as the Vendor in its absolute discretion thinks fit.

c) Notwithstanding any agreed payment terms all invoices shall become due and payable immediately default is made in respect of the due payment date of any invoice due.

d) Claims for deductions from invoices can only be entertained if they are made 10 days before the date due for the invoice to be paid.

4. Delivery

a) All delivery dates are approximate and the Vendor will make every effort to meet the delivery date indicated but in the event of delayed delivery the Vendor shall not be liable for any loss or damage of whatsoever nature arising thereof.

b) Each part delivery shall be considered a separate transaction which will not affect the rights or liabilities of either party as to the remaining deliveries

c) Non delivery or delayed delivery due to war, civil commotion, strikes, lockouts, machine breakdown, fire, force-majure or any cause whatsoever beyond the Vendor's control will not involve liability on the part of the Vendor and the Vendor will be entitled at its option to cancel the order or any part thereof or to an extension of time for delivery corresponding to the duration of the event causing the delay.

5. Retention of Title

a) The legal ownership of any goods supplied by the Vendor to the Purchaser shall remain with the Vendor until the Purchaser shall have paid for them in full but the risk in the goods and all liability in respect of them shall pass to the Purchaser on delivery.

b) Until the purchaser shall have paid for the goods in full the Purchaser shall store the goods so that they can be readily identified as the property and goods of the Vendor.

c) During the time that the goods remain the property of the Vendor as aforementioned, the Purchaser shall be entitled to sell the goods in the ordinary course of business provided that no Receiver shall have been appointed for the Purchaser or winding up or petition shall have been presented or winding up resolution passed in respect of the Purchaser.

d) The purchaser shall hold the net proceeds of sale or re-sale on trust for the Vendor until such time as the sums due to the Vendor have been paid in full.

e) If the Vendor's goods shall be processed or incorporated into other goods then the goods so produced shall be the property of the Vendor either solely or in such proportion to the cost price to the Purchaser of the goods supplied by the Vendor in the new goods or articles produced.

6. Indemnity

The Purchaser shall indemnify the Vendor against all damages, penalties, costs and expenses for which the Vendor may become liable as the result of any work done by the Vendor in accordance with the Purchaser's instructions or specifications which is an infringement of any Patent, Copyright or Registered Design.

7. Special Products

In the event of the Purchaser cancelling an order for goods made up specifically at the request of the Purchaser or comprising goods not normally stocked by the Vendor, the Purchaser shall pay upon cancellation the Vendor's price for such goods as are completed at cancellation and an equitable price for such goods as are in process at cancellation based upon the Vendor's costs, expenses and profit reasonably expected and incurred in processing or obtaining such goods in accordance with the degree of progress attained.

8. Cancellation of Orders

Orders accepted by us cannot be cancelled or modified except with our consent.

9. Purchaser's Conditions

In the event of customers' order forms containing printed conditions of purchase it is understood that such conditions are only binding as far as they are not at variance with the terms and conditions mentioned herein.

10. Damage or Loss in Transit

a) We shall replace goods lost or damaged in transit to the Purchaser provided we shall be notified of such damage or defect within 10 working days of delivery or in the case of loss, within 10 working days of the date of dispatch or receipt of the invoice but not otherwise.

b) The Vendor shall not be liable in respect of any claim in respect of loss or profit or any consequential loss by the Purchaser arising as a result of failure of goods to be delivered or not being delivered on time

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