



SIEMENS



SENTRON • SIVACON • ALPHA

Low-Voltage Power Distribution and Electrical Installation Technology

Fuse Systems

Catalog
Extract
LV 10

Edition
10/2021

[siemens.com/lowvoltage](https://www.siemens.com/lowvoltage)

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The products and systems described in this catalog are manufactured/distributed under application of a certified quality management system in accordance with EN ISO 9001 (for the Certified Registration Nos., see www.siemens.com/system-certificates/ep). The certificate is recognized by all IQNet countries.

Technical specifications

The technical specifications are for general information purposes only. Always heed the operating instructions and notices on individual products during assembly, operation and maintenance.

All illustrations are not binding.

Low-Voltage Power Distribution and Electrical Installation Technology

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A



Mandatory basic protection in electrical installations

Overcurrents in electrical installations occur as a result of excessive load or short-circuits and can cause serious accidents, fires and financial damage. Appropriate protection devices have therefore been mandatory ever since electricity was first harnessed to power equipment. As a pioneer in fuse systems, we offer you the complete range of devices for the protection of cables as well as electrical devices and installations in the event of overloads and short-circuits.

Fuses are capable of safely switching off circuits as soon as an overload or short-circuit occurs. This prevents damage to electrical equipment or extended power failures. Specific variants of fuse systems are used for different applications.

Among other things, our fuses are used for protecting cables and lines, switching devices and semiconductors as well as in photovoltaics and wind power.

Fuse Systems



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A multitude of additional information ...

Information + ordering

All the important things at a glance

For information about fuse systems, please visit our website
www.siemens.com/fuses

Your product in detail

The Siemens Industry Online Support (SIOS) provides comprehensive information
www.siemens.com/lowvoltage/product-support

- Technology primer – Fuse systems (109482303)

The relevant tender specifications can be found at
www.siemens.com/lowvoltage/tenderspecifications

Use our conversion tool for quick and easy conversion to Siemens products www.siemens.com/conversion-tool

Siemens YouTube channel

- Siemens fuse systems bit.ly/2kWaepz

Everything you need for your order

Refer to the Industry Mall for an overview of your products

- Fuse systems sie.ag/2kW3pnU

Direct forwarding to the individual products in the Industry Mall by clicking on the article number in the catalog or by entering this web address incl. article number
www.siemens.com/product?Article No.

Configurators

The configurator reduces the time and effort required in the planning and ordering process, and allows for individual adaptations. Configure your SITOR semiconductor fuse at

www.siemens.com/lowvoltage/sitor-configurator

The fast track to the experts

Contact persons in your region

We offer a comprehensive portfolio of services. You can find your local contacts at
www.siemens.com/lowvoltage/components/contact

You can find further information on services at
www.siemens.com/service-catalog

Competent expert advice on technical questions with a wide range of demand-optimized services for all our products and systems.

Assistance with technical queries is provided at
www.siemens.com/support-request

... can be found in our online services

Commissioning + operation

Your product in detail

The Siemens Industry Online Support (SIOS) provides detailed technical information

www.siemens.com/lowvoltage/product-support

- Operating instructions
- Characteristic curves
- Certificates

Comprehensive mobile support via the Siemens Industry Online Support app available for download from the

[App Store](#) and [Play Store](#)

You will find further information under:

www.siemens.com/support-app

Provision of 3D data (step and u3d data formats)

- Siemens Industry Mall
www.siemens.com/lowvoltage/mall
- Image database
www.siemens.com/lowvoltage/picturedb

Engineering data for CAD or CAE systems are available in the CAx Download Manager at

www.siemens.com/cax

Manuals

Manuals are available for downloading in Siemens Industry Online Support (SIOS) at

www.siemens.com/lowvoltage/manuals

- Configuration manual – Fuse systems
([45314810](#))
- Planning manual – Planning with SIVACON 8PS
([109478425](#))
- Installation manual – Circuit protection devices with communication and measuring function ([109791805](#))
- System manual – Circuit protection devices with communication and measuring function ([109791806](#))

Classroom or online training

Our training courses can be found at

www.siemens.com/sitrain-lowvoltage

- SENTRON circuit protection devices with measuring and communication function (WT-LVBCOM)

Technical overview – Fuse systems



The fast way to get you to our online services

This page provides you with comprehensive information and links on fuse systems

www.siemens.com/lowvoltage/product-support ([109769085](#))

System overview

Fuse holders and bases

IEC fuse holders and bases



MINIZED



NEOZED



DIAZED



Bus-mounting bases for busbars



Photovoltaic cumulative fuses

IEC/UL fuse holders and bases



LV HRC fuses



Cylindrical fuses



SITOR semiconductor fuses (LV HRC design)



SITOR semiconductor fuses (cylindrical fuse design)



Photovoltaic cylindrical fuses

UL fuse holders and bases

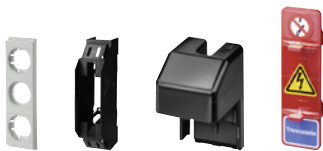


Class CC



Class J

Accessories for fuse holders and bases



Covers



Screw caps



Adapter sleeves

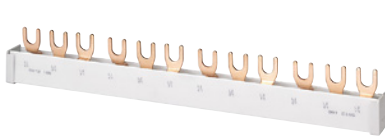


Isolating blades

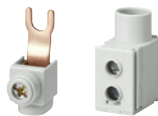


LV HRC signal detectors

Busbars and accessories



Can be cut



Terminals



Touch protection



End caps

Note:

You will find a detailed range of accessories with the basic units.

Fuse links

IEC fuse links



NEOZED



DIAZED



LV HRC

LV HRC
(3NA COM) **new**Cylindrical
fuses

SILIZED



SILIZED

Photovoltaic
cumulative fusesPhotovoltaic
cylindrical fusesPhotovoltaic
cylindrical fuses

IEC/UL fuse links

SITOR semiconductor fuses
(LV HRC design)SITOR semiconductor fuses
(cylindrical fuse design)

UL fuse links



Class CC

Note:

You will find a detailed range of accessories with the basic units.

Overview of fuse systems according to IEC

Fuse links




Standard	IEC	IEC	
Rated current I_n	2 ... 100 A	2 ... 100 A	
Rated voltage U_n (AC)	400 V	500 ... 750 V	
Rated voltage U_n (DC)	250 V	500 ... 750 V	
Design/application	NEOZED/SILIZED	DIAZED/SILIZED	
Selection according to protection task	Cables and conductors, general (gG, gFF)	■	■
	Motor protection (aM)	-	-
	Power semiconductor (aR, gR, gS)	■	■
	Photovoltaic protection (gPV)	-	-
	Battery protection (aR, gR, gBAT)	-	-
Type	5SE	5SA, 5SB, 5SC, 5SD	
More information	See page 7/32 See page 7/34	See page 7/33 See page 7/34	

Fuse holders and bases



For protection tasks

Overview, see page 7/8








	Floor mounting	Standard mounting rail	Busbar	Type	Standard	More information		
Fuse bases 	-	■	■	5SG	IEC	See page 7/12	■	-
	■	■	■	5SF	IEC	See page 7/18	-	■
	■	-	-	3NH	IEC/UL	See page 7/22	-	-
	■	-	-	3NH7	IEC	See page 7/22	-	-
	-	■	■	3NW7	IEC/UL	See page 7/24	-	-
	-	■	-	3NC..	IEC/UL	See page 7/25	-	-
	-	■	-	3NW7...-4	IEC	See page 7/26	-	-

For protection and switching tasks

System overview, see page 8/82, 8/126

	Floor mounting	Standard mounting rail	Busbar	Type	Standard	More information		
Fuse switch disconnectors 	■	■	■	3NP1	IEC/UL	See page 8/94	-	-
	■	-	■	3NP5	IEC/UL	See page 8/96	-	-
	-	■	■	5SG76	IEC	See page 8/112	■	-
	-	-	■	3NJ4	IEC	See page 8/100	-	-
Switch disconnectors with fuse 	■	■	-	3KF LV HRC	IEC	See page 8/126	-	-
	■	■	-	3KF SITOR	IEC/UL	See page 8/126	-	-
	-	-	■	3NJ62	IEC	See page 8/134	-	-
	-	■	■	5SG71	IEC	See page 8/142	■	-

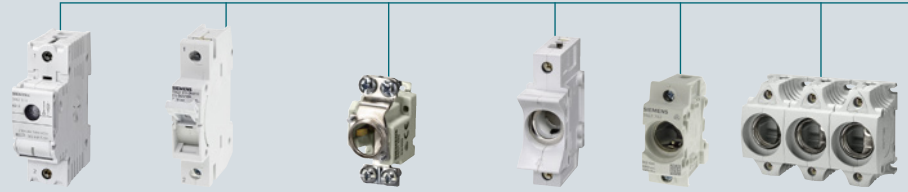
Overview, see page 7/30

																	
IEC	IEC	IEC	IEC	IEC/UL	IEC/UL	IEC/UL	IEC	IEC	IEC	IEC	UL	UL	UL				
2 ... 1250 A	80 ... 315 A	0.5 ... 100 A	2 ... 2400 A	1 ... 125 A	2 ... 630 A	0.5 ... 30 A	400 ... 690 V	400 V	400 ... 690 V	500 ... 2500 V	600 ... 1500 V	600 V	250 ... 400 V	250 V	-	1000 ... 1500 V	150 ... 300 V
LV HRC	LV HRC	Cylindrical	SITOR LV HRC	SITOR cylindrical	Photovoltaic	Class CC											
■	■	■	-	-	-	■	-	-	-	-	■	■	-	-	-	-	-
■	-	■	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	■	■	■	■	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	■	-	-	-	-	-	-	-
-	-	-	■	■	■	■	-	-	-	-	-	-	-	-	-	-	-
3NA, 3ND	3NA COM	3NW6, 3NW8	3NE, 3NC	3NC10	3NE..., 3NW...	3NW1, 3NW2, 3NW3											
See page 7/36	See page 7/36	See page 7/12	See page 7/46	See page 7/63	See page 7/35 See page 7/68	See page 7/69											

-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
■	■	-	■	■	■	■	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	■	-	-
-	-	■	-	-	-	-	-	-	-	-	■	-
-	-	-	-	-	■	-	-	-	-	-	-	-
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■	■	-	(■)	-	-	-	-	-	-	-	-	-
-	-	-	■	-	-	-	-	-	-	-	-	-
■	■	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-

Quick selection guide of fuse holders, bases and D0 fuse switching devices

IEC



	MINIZED switch disconnectors with fuses	MINIZED fuse switch disconnectors	NEOZED fuse bases			NEOZED comfort bases	NEOZED fuse bases	DIAZED fuse bases
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Basic data											
Size/for fuses of size			D02	D01	D01	D02	D03	D01, D02	D01, D02	NDz, DII, DIII	
Type			5SG71	5SG76	5SG15 5SG55	5SG16 5SG56	5SG18	5SG1301 5SG1701 5SG5301 5SG5701	5SG1302 5SG1702 5SG5302 5SG5702	5SF	
Standards											
Standards			DIN VDE 0638; EN 60947-3 (VDE 0660-107) EC/EN 60947-3	DIN VDE 0638; EN 60947-3 (VDE 0660-107) EC/EN 60947-3	IEC 60269-3; DIN VDE 0636-3			IEC 60269-3; DIN VDE 0636-3	IEC 60269-3; DIN VDE 0636-3	IEC 60269-3; DIN VDE 0635; DIN VDE 0636-3; CEE 16	
Approvals			–	–	–	–	–	–	–	–	
Certifications			–	–	–	–	–	–	–	–	
Technical specifications AC											
Rated voltage		U_n	V AC	230/400, 240/415	230/400, 240/415	400	400	400	–	–	500, 690, 750
Rated insulation voltage			V AC	500	690	–	–	–	–	–	–
Short-circuit strength			kA AC	50	50	50	50	50	50	50	50
Rated current		I_n	A	63	16	16	63	100	16/63	16/63	2 ... 100
		I_n acc. to UL/CSA	A	–	–	–	–	–	–	–	–
Rated impulse withstand voltage			kV AC	6	6	–	–	–	–	–	–
Utilization category		Acc. to VDE 0638	A	AC-22	AC-22	–	–	–	–	–	–
		Acc. to EN 60947-3	A	AC-22B, AC-23B (35A)	AC-22A	–	–	–	–	–	–
Technical specifications DC											
Rated voltage		U_n	V DC	65 (1P), 130 (2P)	48 (1P), 110 (2P)	250	250	250	–	–	500, 600, 750
		U_n acc. to UL	V DC	–	–	–	–	–	–	–	–
Short-circuit strength			kA DC	–	–	8	8	8	8	8	–
Utilization category		Acc. to EN 60947-3	A	DC-22B	–	–	–	–	–	–	–
Further technical specifications											
Overvoltage category				IV	IV	–	–	–	–	–	III; II (DIAZED fuse bases made of molded plastic for use at 690 V AC/ 600 V DC)
Max. power dissipation of fuse links (conductor cross-section used)			W	–	–	–	–	–	–	–	–
Pollution degree				–	–	–	–	–	–	–	–
Further information											
			See page 7/13	See page 7/12	See page 7/16			See page 7/18			

¹⁾ Extended rated voltage up to 1000 V

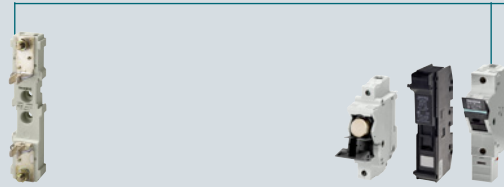
IEC



Cylindrical fuse holders		LV HRC fuse bases							Photovoltaic cumulative fuse bases						NEOZED bus-mounting bases for 8US 60 mm compact busbar systems		NEOZED bus-mounting bases for 8US 60 mm busbar systems		DIAZED bus-mounting bases for 8US 60 mm busbar systems	
8×32 mm	22×58 mm	000/00	0	1	2	3	4	1	1L	2L	3L	1XL	2XL	D02	D02	DII	DII			
3NW73..	3NW72..	-	-	-	-	-	-	3NH7...-4						5SG6208	5SG6202 5SG6206 5SG6207	5SF6014 5SF6015 5SF6020	5SF6214 5SF6215 5SF6220			
IEC 60269-1, -2, -3; NF C 60-200, NF C 63-210, -211; NBN C 63269-2-1; CEI 32-4, -12; UL 4248-1		IEC 60269-1, -2; EN 60269-1; DIN VDE 0636-2, UL 4248-1 (only downstream from the branch protection)							IEC 60269, IEC 60269-2, IEC 60947						IEC 60269-3, DIN VDE 0636-3		IEC 60269-3, DIN VDE 0636-3		IEC 60269-3, DIN VDE 0636-3, IEC 60269-3, DIN VDE 0636-3	
UL File number E171267		KEMA; UL file number E171267-IZLT2							-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
400	690	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾	690	-	-	-	-	-	-	400	400	500	690			
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
20	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
20	100	160	160	250	400	630	1250	160	250	400	630	250	400	63	63	25	63			
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
AC-20B (switching without load)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	250	440	440	440	440	440	1000	1000	1000	1000	1500	1500	250	250	-	600			
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	25	25	25	25	25	25	-	-	-	-	-	-	8	8	8	8			
DC-20B (switching without load)		-	-	-	-	-	-	DC-20B (switching without load)						-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	12	25	32	45	60	90	40	90	110	130	90	110	-	-	-	-			
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
See page 7/22		See page 7/22							See page 7/21						See page 7/20					

Quick selection guide of fuse holders, bases and D0 fuse switching devices

IEC/UL

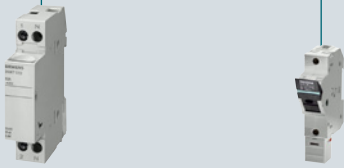


			LV HRC fuse bases					Fuse holders for SITOR semiconductor fuses (cylindrical fuse design)				
Basic data			000/00	0	1	2	3	10 × 38 mm	14 × 51 mm	22 × 58 mm	22 × 127 mm	
Size/for fuses of size			3NH3030 3NH4030		3NH3120	3NH3220 3NH3230 3NH4230	3NH3320 3NH3330 3NH3430	3NH3420	3NC10	3NC14	3NC22	3NC23
Type ²⁾			IEC 60269-1, -2; EN 60269-1; DIN VDE 0636-2, UL 4248-1 (only downstream from the branch protection)					UL 4248-1; CSA C22.2; IEC 60269-2, IEC 60947-3	UL 4248-1; CSA C22.2; IEC 60269-2, IEC 60947-3	UL 4248-1; CSA C22.2; IEC 60269-2, IEC 60947-3	IEC 60269-2, IEC 60947-3	
Standards			KEMA, UL file number E171267-IZLT2					UL 4248-1; UL File number E171267; CSA C22.2 No. 39-M				
Approvals			-					UL, CE	UL, CE	UL, CE	-	
Certifications			-					-	-	-	-	
Technical specifications AC												
Rated voltage	U_n	V AC	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾	690	690	690	1500	
	U_n acc. to UL	V AC	690	690	1000	1000	1000	600	600	600	-	
	U_n acc. to CSA	V AC	600	600	600	600	600	-	-	-	-	
Rated insulation voltage		V AC	-	-	-	-	-	-	-	-	-	
Short-circuit strength		kA AC	-	-	-	-	-	50	50 (100 at 400 V)	50 (100 at 500 V)	30	
	Rated current	I_n	A	160	160	250	400	630	32	50	100	63
	I_n acc. to UL	A	160	160	250	-	500	30	50	80	-	
	I_n acc. to CSA	A	160	160	250	-	850	30	40	80	-	
	Rated impulse withstand voltage	kV AC	-	-	-	-	-	6	6	6	-	
Utilization category	Acc. to VDE 0638	A	-	-	-	-	-	-	-	-	-	
	Acc. to EN 60947-3	A	-	-	-	-	-	AC-22B (400 V)	AC-22B (400 V)	AC-20B (690 V)	AC-20B	
Technical specifications DC												
Rated voltage	U_n	V DC	250	440	440	440	440	800			1000	
	U_n acc. to UL	V DC	-	-	-	-	-	-	-	-	-	
Short-circuit strength		kA DC	25	25	25	25	25	-	-	-	50	
Utilization category	Acc. to EN 60947-3	A	-	-	-	-	-	-	-	-	DC-20B	
Further technical specifications												
Overvoltage category			-	-	-	-	-	-	-	-	-	
Max. power dissipation of fuse links (conductor cross-section used)	W		12	25	32	45	60	3 (6 mm ²), 4.3 (10 mm ²)	5 (10 mm ²), 6.5 (25 mm ²)	9.5 (35 mm ²), 11 (50 mm ²)	15 (1 ... 50 mm ²)	
Pollution degree			-	-	-	-	-	2	2	2	-	
Further information												
						See page 7/22			See page 7/64			

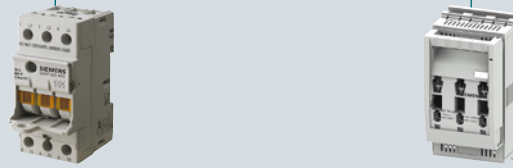
¹⁾ Extended rated voltage up to 1000 V

²⁾ Types with UL approval and types with CSA approval may differ

IEC/UL



UL



Cylindrical fuse holders		Photovoltaic cylindrical fuse holders		Class CC fuse holders	Class J fuse holders				
10 x 38 mm	14 x 51 mm	10 x 38 mm	10 x 85 mm	–	–				
3NW70.. 3NW703.-1	3NW71..	3NW70..-4	3NW76..-4	3NW75.3-0HG 3NW753.-1HG	3NW75.3-3HG, 3NW75.3-5HG, 3NW75.3-6HG, 3NW75.3-7HG, 3NW75.3-8HG, 3NW7431-6HG, 3NW7431-7HG, 3NW7431-8HG				
IEC 60269-1, -2, -3; NF C 60-200, NF C 63-210, -211; NBN C 63269-2-1; CEI 32-4, -12; UL 4248-1		IEC 60269, IEC 60269-2, IEC 60947, UL 4248-1, -18	IEC 60269, IEC 60269-2, IEC 60947, UL 4248-1, -18	UL 4248-1; CSA C22.2	UL 4248-1 Ed.1, UL 4248-8 Ed.1				
UL File number E171267		UL (File number E469670, CCC) (types without signal detector)	UL (E355487)	UL 4248-1; UL File number E171267; CSA C22.2	UL File number E171267; CSA File number 233322; Class number 6225-01				
		–	–	–					
					Busbar device:				
690	690	–	–	–	–	–	–	–	–
600	700	–	–	600	600	600	600	600	600
–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–
100	100	–	–	200	200	200	200	200	200
32	50	30	32	30	30	60	100	200	400
–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–
–	–	6	–	6	No information as the devices are only tested and certified to UL/CSA and not to IEC				
–	–	–	–	–	–				
AC-20B (switching without load)		–	–	AC-20B (switching without load)	AC-20B (switching without load)				
–	–	1000	1500	300	–	–	–	–	–
–	–	–	–	–	600	600	600	600	600
–	–	–	–	–	–	–	–	–	–
DC-20B (switching without load)		–	–	DC-20B (switching without load)	DC-20B (switching without load)				
–	–	II	–	II	No information as the devices are only tested and certified to UL/CSA and not to IEC				
–	–	4	6	3 (6 mm ²), 4.3 (10 mm ²)	–				
–	–	2	–	2	No information as the devices are only tested and certified to UL/CSA and not to IEC				
See page 7/24		See page 7/26		See page 7/28	See page 7/27				

MINIZED fuse switch disconnectors



Size	Rated current	1P	1P+N	2P	3P	3P+N
D01	2 ... 6 A	5SG7611-0KK06	–	–	5SG7631-0KK06	–
	10 A	5SG7611-0KK10	–	–	5SG7631-0KK10	–
	16 A	5SG7611-0KK16	5SG7651-0KK16	5SG7621-0KK16	5SG7631-0KK16	5SG7661-0KK16

Note:
NEOZED adapter sleeves are not required for these devices

Accessories

Electronic fuse monitor



- For all low-voltage fuse systems
- For monitoring all types and versions of melting fuses that cannot be equipped with a fault signal contact
- Can be used in asymmetric systems afflicted with harmonics and regenerative feedback motors
- Signal also for disconnected loads

U_e AC	I_n	U_c	Article No.
230 V	4 A	3 AC 380 ... 415 V	5TT3170

MINIZED switch disconnectors with fuses

Number of poles

1P



1P+N



2P



3P



3P+N



Size	Rated current	1P	1P+N	2P	3P	3P+N
D02	25 A	–	–	–	5SG7133-8BA25 ¹⁾	–
	35 A	–	–	–	5SG7133-8BA35 ¹⁾	–
	50 A	–	–	–	5SG7133-8BA50 ¹⁾	–
	63 A	5SG7113	5SG7153	5SG7123	5SG7133	5SG7163

¹⁾ Versions for Austria only, with permanently fitted adapter sleeves and incl. fuse link

Note:

NEOZED adapter sleeves are required for these devices, [see page 7/16](#)

Accessories

Reducers



Use

For D01 fuse links in MINIZED switch disconnectors with fuses D02

Article No.

5SH5527

Auxiliary switches (AS)



Version

1 NO + 1 NC

2 NO

2 NC

Article No.

5ST3010

5ST3011

5ST3012

Auxiliary switches (AS) with TEST button



Version

1 NO + 1 NC

2 NO

2 NC

Article No.

5ST3010-2

5ST3011-2

5ST3012-2

5ST3 COM auxiliary switches and fault signal contacts (AS+FC) with communication and measuring function



Version

Article No.

5ST3062-OMC

Electronic fuse monitor



- For all low-voltage fuse systems
- For monitoring all types and versions of melting fuses that cannot be equipped with a fault signal contact
- Can be used in asymmetric systems afflicted with harmonics and regenerative feedback motors
- Signal also for disconnected loads

U_e AC

230 V

I_n

4 A

U_c




3 AC 380 ... 415 V

Article No.

5TT3170

NEOZED bus-mounting switch disconnectors with fuses

For 8US 60 mm busbar systems

Mounting width	Size D02		
	1.5 MW	1.5 MW	1.5 MW
			

For flat copper profiles	Rated current		Rated voltage		Standard	Without LED signal detector		With LED signal detector	
	IEC	UL 508	IEC AC	IEC DC		UL 508			
Box terminals									
5 mm and 10 mm	63 A ¹⁾	–	400 V AC	–	–	IEC	5SG7234-1	–	5SG7234-2
	63 A ²⁾	–	400 V AC	110 V DC	–	IEC	–	5SG7230	–

¹⁾ In the case of permanent load over 35 A, we recommend the use of lateral module 5SH5533. Please observe EN 60439-1, Table 1.
²⁾ In the case of permanent load over 35 A, we recommend the use of lateral module 5SH5526. Please observe EN 60439-1, Table 1.

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Suitable accessories

Auxiliary switches



- For signaling the switching state for bus-mounting switch disconnectors

Contacts	Mounting width	Article No.	Article No.	Article No.
1 CO	0.5 MW	–	5SH5525	–

Lateral modules



- For greater heat dissipation for loads from 35 A

Mounting width	Article No.	Article No.	Article No.
0.5 MW	5SH5533	5SH5526	5SH5533

Reducers



- Use**
For NEOZED D01 fuse links in SR60 bus-mounting switch disconnectors

Use	Article No.	Article No.	Article No.
For NEOZED D01 fuse links in SR60 bus-mounting switch disconnectors	5SH5527	5SH5527	5SH5527

Electronic fuse monitor









- For all low-voltage fuse systems
- For monitoring all types and versions of melting fuses that cannot be equipped with a fault signal contact
- Can be used in asymmetric systems afflicted with harmonics and regenerative feedback motors
- Signal also for disconnected loads

U_e AC	I_n	U_c	Article No.	Article No.	Article No.
230 V	4 A	3 AC 380 ... 415 V AC	5TT3170	5TT3170	5TT3170

See SITOR semiconductor fuse links (cylindrical fuse design) [from page 13/1](#)

NEOZED fuse bases




Number of poles	Comfort bases made of molded plastic		Fuse bases made of molded plastic				
	1P	3P	Without LED signal detector		With LED signal detector		
							
Size	Rated current						
D01	16 A	5SG1301	5SG5301	5SG1302	5SG5302	5SG1302-1	5SG5302-1
D02	63 A	5SG1701	5SG5701	5SG1702	5SG5702	5SG1702-1	5SG5702-1
D03	100 A	–	–	–	–	–	–

Accessories

NEOZED screw caps

	Material	Version	Fuse size	Article No.
	Molded plastic	With inspection hole	D01	5SH4116
			D02	5SH4163
	Ceramic	Without inspection hole, sealable	D01	5SH4316
			D02	5SH4363
		Without inspection hole	D03	5SH4100
			With inspection hole	D01
D02	5SH4362			

NEOZED adapter sleeves

	Fuse size	I_n	Color	Article No.
	D01	2 A	Pink	5SH5002
		4 A	Brown	5SH5004
		6 A	Green	5SH5006
		10/13 A	Red	5SH5010
	D02	20 A	Blue	5SH5020
		25 A	Yellow	5SH5025
		32 A	Violet	5SH5032
		35/40 A	Black	5SH5035
		50 A	White	5SH5050
	D03	80 A	Silver	5SH5080
		D01 fuse links in D02 base or MINIZED switch disconnectors with fuses D02	2 A	Pink
		4 A	Brown	5SH5404
		6 A	Green	5SH5406
		10/13 A	Red	5SH5410
		16 A	Gray	5SH5416

Fuse bases made of ceramic					
With clamp-type terminal, on both sides		With saddle terminal, on both sides		With screw head contact at incoming feeder, clamp-type terminal at outgoing feeder	
1P	3P	1P	3P	1P	3P
					
5SG1553	5SG5553	–	–	–	–
–	–	5SG1653	5SG5653	5SG1693	5SG5693
–	–	–	–	5SG1812	–

NEOZED covers



Fuse size
D03

Article No.
5SH5233

NEOZED adapter sleeve fitters



Article No.
5SH5100

NEOZED retaining springs



Use
For D01 fuse links in D02 screw caps, 2 ... 16 A

Article No.
5SH5400





Electronic fuse monitor



- For all low-voltage fuse systems
- For monitoring all types and versions of melting fuses that cannot be equipped with a fault signal contact
- Can be used in asymmetric systems afflicted with harmonics and regenerative feedback motors
- Signal also for disconnected loads

U_e AC	I_n	U_c	Article No.
230 V	4 A	3 AC 380 ... 415 V	5TT3170


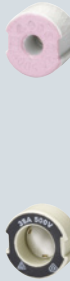
DIAZED fuse bases

	Number of poles	Fuse bases made of molded plastic With box terminal		Fuse bases made of ceramic With clamp-type terminal, on both sides	Fuse bases made of ceramic With clamp-type terminal at incoming feeder, saddle terminal at outgoing feeder
		1P	3P	1P	1P
					
Size	Rated current	U_n AC/DC 500/500 V	U_n AC/DC 500/500 V	U_n AC/DC 500/500 V	U_n AC/DC 500/500 V
DII	25 A	5SF1060	5SF5068	5SF1005	–
DIII	63 A	5SF1260 ¹⁾	5SF5268 ¹⁾	–	5SF1205 ¹⁾

¹⁾ Can also be used for 690 V AC/600 V DC.

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Accessories

DIAZED screw caps						
	Material	Version	Fuse size	Rated voltage AC/DC	Article No.	
	Molded plastic	With inspection hole	NDz	500/500 V	5SH1112	
			DII	500/500 V	5SH1221	
			DIII	500/500 V	5SH1231	
	Ceramic	Without inspection hole		DII	500/500 V	5SH112
				DIII	500/500 V	5SH113
		With inspection hole, sealable		DII	500/500 V	5SH122
				DIII	500/500 V	5SH123
		Extended version		DIII	690/600 V	5SH1170
	With fine thread		DIII	750/750 V	5SH1161	
	DIAZED screw adapters					
		• Also for 5SF230 up to 750 V				
		Fuse size	I_n	Article No.		
	DII	2 A	5SH310			
		4 A	5SH311			
		6 A	5SH312			
		10 A	5SH313			
		16 A	5SH314			
		20 A	5SH315			
		25 A	5SH316			
	DIII	32 A	5SH327			
		35 A	5SH317			
		50 A	5SH318			
		63 A	5SH320			

With screw head contact,
on both sides

1P



U_n AC/DC
750/750 V

5SF4230

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DIAZED reduction sleeves for screw caps



Use

For DII fuse links in DIII base

Article No.

5SH302

DIAZED adapter sleeve fitters



Use

For DII/DIII screw adapters

Article No.

5SH3703

DIAZED cover rings



Fuse size

Material

Article No.

DII

Molded plastic

5SH3401

DIII

Molded plastic

5SH3411

DIAZED caps



Fuse size

Material

Article No.

DII

Molded plastic

5SH202

DIII

Molded plastic

5SH222

Electronic fuse monitor



- For all low-voltage fuse systems
- For monitoring all types and versions of melting fuses that cannot be equipped with a fault signal contact
- Can be used in asymmetric systems afflicted with harmonics and regenerative feedback motors
- Signal also for disconnected loads

U_e AC

I_n

U_c

Article No.

230 V







4 A

3 AC 380 ... 415 V

5TT3170

Bus-mounting bases

For 8US busbar systems

				60 mm compact busbar systems		60 mm busbar systems		
				NEOZED design		NEOZED design		DIAZED design
				3P		3P		3P
								
								
Size	I_n	Mounting width	U_n AC/DC	With touch protection cover	Standard	With touch protection cover	Standard	With touch protection cover
D02	63 A	1.5 MW	–	–	5SG6202	5SG6206	–	–
		2 MW	–	5SG6208	–	5SG6207	–	–
DII	25 A	–	500/500 V	–	–	–	5SF6015	5SF6020
DIII	63 A	–	500/500 V ¹⁾	–	–	–	5SF6215	5SF6220



¹⁾ Can also be used for 690 V AC/600 V DC.


Note:

NEOZED adapter sleeves and DIAZED screw adapters as well as the respective screw caps are required, [see page 7/16](#) and [7/18](#)

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Accessories

Covers for bus-mounting base standard version for 60 mm busbar systems					
	Design	Fuse size	Version	Mounting width (1 MW = 18 mm)	Article No.
	NEOZED	D02	Standard	1.5 MW	5SH5241
			Extra wide	2 MW	5SH5242
			Double width	3 MW	5SH5243
	DIAZED	DII			5SH2042
		DIII			5SH2242

Electronic fuse monitor				
	<ul style="list-style-type: none"> For all low-voltage fuse systems For monitoring all types and versions of melting fuses that cannot be equipped with a fault signal contact Can be used in asymmetric systems afflicted with harmonics and regenerative feedback motors Signal also for disconnected loads 			Article No.
	U_e AC	I_n	U_c	
	230 V	4 A	3 AC 380 ... 415 V	5TT3170

See Busbar systems [from page 13/1](#)

Photovoltaic cumulative fuse bases



Size	Rated current	Rated voltage DC			
1	250 A	1000 V	3NH3230	–	3NH7262-4KK01
1L	250 A	1000 V	–	3NH7260-4	–
2L	400 A	1000 V	–	3NH7360-4	3NH7360-4KK01
3L	630 A	1000/1500 V	–	3NH7460-4	–
1XL	250 A	1500 V	–	3NH7261-4	–
2XL	400 A	1500 V	–	3NH7361-4	–

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Accessories

Terminal covers for PV fuse bases with swiveling mechanism

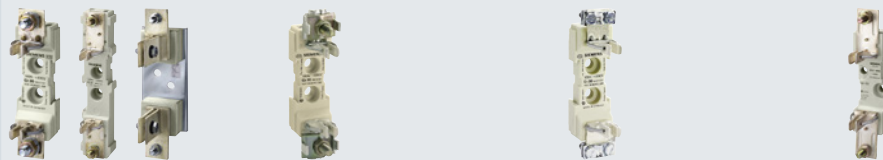


Fuse link size	Article No.
1, 1L, 1XL	3NX3121
2L, 2XL	3NX3122
3L	3NX3123

LV HRC fuse bases

Number of poles 1P

Ceramic



Size	Rated current	Flat terminals	Plug-in terminal	Saddle-type terminal	Double busbar terminal
000/00	160 A	3NH3030	3NH3031	3NH3032	–
0 ¹⁾	160 A	3NH3120	–	–	–
1	250 A	3NH3230	–	–	3NH3220
2	400 A	3NH3330	–	–	3NH3320
3	630 A	3NH3430	–	–	3NH3420
4	1250 A	3NH3530	–	–	–
4a	1250 A	–	–	–	–

¹⁾ No longer to be used for new installations!

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Accessories

LV HRC protective covers for LV HRC fuse bases



- As touch protection for contact pieces

Size	Article No.
000/00	3NX3105
0	3NX3114
1	3NX3106
2	3NX3107
3	3NX3108

LV HRC partitions for LV HRC fuse bases



- As intermediate phase and end barrier

Size	Type	Article No.
000/00	3NH30/3NH40	3NX2023
0	3NH31	3NX2030
1	3NH32	3NX2024
2	3NH33	3NX2025
3	3NH34	3NX2026

LV HRC protective covers




Size	Number of poles	Article No.
000/00	1P and 3P	3NX3115

Grip lug cover for plugging into the LV HRC protective cover



Size	Use	Article No.
000/00	When using fuse links with non-insulated grip lugs	3NX3116

3P		Molded plastic		With swivel device	
					
Flat terminals	Saddle-type terminal	Flat terminals	Flat terminals		
3NH4030	3NH4032	3NH3051	–		
–	–	–	–		
3NH4230	–	–	–		
–	–	–	–		
–	–	–	–		
–	–	–	–		
–	–	–	–		
–	–	–	–		3NH7520

Blanking covers for LV HRC fuse bases (instead of LV HRC fuse link)



- Red color
- With inscription "Isolating point"
- Observe width 60 mm of the blank insert when using for size 1

Size	Article No.
000/00	3NX1003
1, 2, 3	3NX1004

Fuse pullers for LV HRC fuse links



Size	Version	Article No.
000 ... 3	Without sleeve	3NX1013
	With sleeve	3NX1014

Isolating blades for LV HRC fuse bases and fuse switch disconnectors



Version	Contacts	Size	Article No.
With insulated grip lugs	Silver-plated	000/00	3NG1002
		0	3NG1102
		1	3NG1202
		2	3NG1302
		3	3NG1402
With non-insulated grip lugs	Tin-coated	4	3NG1503
	Nickel-plated	4a	3NG1505

Cylindrical fuse holders

Number of poles

1P

1P+N

2P

3P

3P+N



For fuses of size	Rated current	Standard	Standard	Standard	Standard	Compact	Bus-mounting fuse holders	Standard
Without LED signal detector								
8 × 32 mm	20 A	3NW7313	3NW7353	3NW7323	3NW7333	–	–	3NW7363
10 × 38 mm	30 A	–	–	–	–	–	3NW7431	–
	32 A	3NW7013	3NW7053	3NW7023	3NW7033	3NW7033-1	–	3NW7063
14 × 51 mm	50 A	3NW7111	3NW7151	3NW7121	3NW7131	–	–	3NW7161
22 × 58 mm	100 A	3NW7211	3NW7251	3NW7221	3NW7231	–	–	3NW7261
With LED signal detector								
8 × 32 mm	20 A	3NW7314	3NW7354	3NW7324	3NW7334	–	–	3NW7364
10 × 38 mm	32 A	3NW7014	3NW7054	3NW7024	3NW7034	3NW7034-1	–	3NW7064
14 × 51 mm	50 A	3NW7112	3NW7152	3NW7122	3NW7132	–	–	3NW7162
22 × 58 mm	100 A	3NW7212	3NW7252	3NW7222	3NW7232	–	–	3NW7262

Note:

Semiconductor fuses heat up substantially more than standard fuses of operational classes gG and aM.

We therefore recommend only using SITOR cylindrical fuses in the intended SITOR fuse holders and complying with the maximum permissible current-carrying capacity.

Accessories

Auxiliary switches for cylindrical fuse holders, standard



- For retrofitting using the factory-fitted brackets

Display	Fuse link size	Article No.
Disconnection of fuse link, for striker fuse links	14 × 51 mm	3NW7901
	22 × 58 mm	3NW7902
Switching state of fuse holder	8 × 32 mm and 10 × 38 mm	3NW7903

Auxiliary switches for cylindrical fuse holders, compact



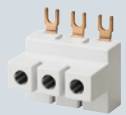
In/AC-12	U_n	Contacts	Article No.
5 A	Max. 250 V	1 NO + 1 NC	3NW7903-1

Busbars for cylindrical fuse holders, compact



Number of poles	I_n	Pin spacing	Length	Article No.
2 × 3P	63 A	15 mm	45 mm	5ST2601
3 × 3P	63 A	15 mm	90 mm	5ST2602
4 × 3P	63 A	15 mm	135 mm	5ST2603
5 × 3P	63 A	15 mm	180 mm	5ST2604

Terminals for cylindrical fuse holders, compact



Version	Article No.
For conductor cross-sections 2.5 ... 35 mm ²	5ST2600

 See Busbar systems [from page 13/1](#)

Fuse holders and bases for SITOR semiconductor fuses

For SITOR fuses with bolt-on links or blade contacts



Rated current	Rated voltage AC/DC	For fuse series	Mounting dimensions		
50 A	690 V	3NC18	75 mm	3NH5723	–
315 A	690 V	3NE87, 3NC26	80 mm	3NH5023	–
400 A	690 V	3NE80...3MK	80 mm	3NH5323	–
630 A	1800 V	3NE53, 3NE56	170 mm	–	3NH5473
1250 A	1250 V	3NC24, 3NC33...-1U, 3NC34...-1U, 3NC84, 3NE1...-3, NE32, 3NE33	110 mm	–	3NH5463
1600 A	690 V	3NE82...3MK	80 mm	–	3NH5423

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For cylindrical fuses

Cylindrical fuse holders, can be used as fuse switch disconnectors

Number of poles

1P



2P



3P



For fuses of size	Rated voltage AC/DC	With signaling switch			
10 × 38 mm	600/- V	–	–	–	–
	690/800 V	3NC1091	–	3NC1092	3NC1093
14 × 51 mm	690/800 V	3NC1491	3NC1491-5	3NC1492	3NC1493
22 × 58 mm	690/800 V	3NC2291	3NC2291-5	3NC2292	3NC2293
22 × 127 mm	1500/1000 V	3NC2391-0MK	–	3NC2392-0MK	3NC2393-0MK

Note:

Please comply with the maximum permissible current-carrying capacity.

Accessories

Fuse tongs








For fuses of size

10 × 38 mm
14 × 51 mm
22 × 58 mm

Article No.








3NC1000

Photovoltaic cylindrical fuse holders






		Without signal detector			With signal detector	
Number of poles		1P	1P	2P	1P	2P
						
For fuses of size	Rated current	U_n DC 1000 V	U_n DC 1500 V	U_n DC 1000 V	U_n DC 1000 V	U_n DC 1000 V
10 x 38 mm	30 A	3NW7013-4	–	3NW7023-4	3NW7014-4	3NW7024-4
10 x 85 mm	32 A	–	3NW7613-4	–	–	–

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Class J fuse holders



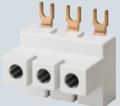
	For mounting on DIN mounting rail			For screwing onto mounting plate	Bus-mounting fuse holders for 8US 60 mm busbar systems			
	Number of poles	1P	2P	3P	3P	3P	3P	
								
For fuses of size	Rated current	Rated voltage						
21 × 57 mm	30 A	600 V	3NW7511-3HG	3NW7521-3HG	3NW7531-3HG	–	–	–
27 × 60 mm	60 A	600 V	3NW7511-5HG	3NW7521-5HG	3NW7531-5HG	–	–	–
28 × 118 mm	100 A	600 V	–	–	–	3NW7531-6HG	3NW7431-6HG	–
41 × 146 mm	200 A	600 V	–	–	–	3NW7531-7HG	–	3NW7431-7HG
54 × 181 mm	400 A	600 V	–	–	–	3NW7531-8HG	–	3NW7431-8HG

Class CC fuse holders

	Standard			Compact		Bus-mounting fuse holders for 8US 60 mm busbar systems
	Number of poles	1P	2P	3P	3P	3P
						
Rated current	Rated voltage	Signal detector				
30 A	600 V	without	with			
		3NW7513-0HG	3NW7523-0HG	3NW7533-0HG	3NW7533-1HG	3NW7534-1HG
					3NW7534-1HG	3NW7431-0HG

Accessories for standard Class CC fuse holders, see busbar systems [from page 13/1](#)

Accessories

Auxiliary switches for cylindrical fuse holders, compact					
	In/AC-12	U_n	Contacts	Article No.	
	5 A	Max. 250 V	1 NO + 1 NC	3NW7903-1	
Busbars for Class CC fuse holders, compact					
	Number of poles	I_n	Pin spacing	Length	Article No.
	2x 3P	63 A	15 mm	45 mm	5ST2601
	3x 3P	63 A	15 mm	90 mm	5ST2602
	4x 3P	63 A	15 mm	135 mm	5ST2603
	5x 3P	63 A	15 mm	180 mm	5ST2604
Terminals for Class CC fuse holders, compact					
	Version	Article No.			
	For conductor cross-sections 2.5 ... 35 mm ²	5ST2600			

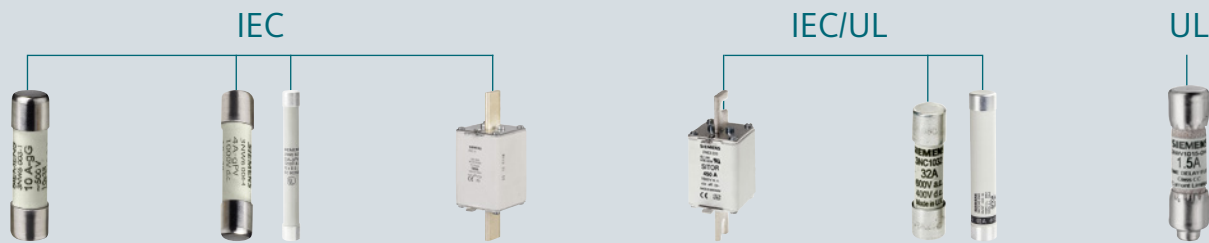
Quick selection guide of fuse links

IEC



	NEOZED fuse links	DIAZED fuse links	SILIZED fuse links	LV HRC fuse links	3NA COM LV HRC fuse links ¹⁾
Basic data					
Design	NEOZED	DIAZED	NEOZED, DIAZED	LV HRC	LV HRC
Size/for fuses of size	D01, D02, D03	NDz, DII, DIII	D01, D02, DII, DIII, DIV	000/00, 0, 1, 2, 3, 4, 4a	2
Operational class	gG	gG	gR	gG, aM	gG, gFF
Rated current	A	2...100	2...100	10...100	2...1250
Standards					
Standard	IEC 60269-3 DIN VDE 0636-3	IEC 60269-3 DIN VDE 0635 DIN VDE 0636-3 CEE 16	IEC 60269-3/-4 DIN VDE 0636-3 EN 60269-4 (VDE 0636-4)	IEC 60269-1/-2 EN 60269-1/-2 DIN VDE 0636-1/-2	IEC 60269-1/-2 EN 60269-1/-2 DIN VDE 0636-1/-2
Approvals	–	–	–	CSA 22.2	VDE, KEMA
Technical specifications AC					
Rated voltage AC	V	400	500...750	400...500	400...690 600 (CSA)
Rated breaking capacity AC	kA	50	50	50	120
Technical specifications DC					
Rated voltage DC	V	250	500...750	250...500	250...440
Rated breaking capacity DC	kA	8	8	8	25
Further information					
	See page 7/33	See page 7/33	See page 7/34	See page 7/42	See page 7/42

¹⁾ With current measuring function and wireless communication





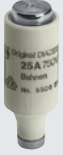


Cylindrical fuse links	Photovoltaic cylindrical fuse links	Photovoltaic cumulative fuse links	SITOR LV HRC semiconductor fuse links	SITOR cylindrical semiconductor fuse links	Class CC fuse links
Cylindrical 8 × 32 mm, 10 × 38 mm, 14 × 51 mm, 22 × 58 mm	Cylindrical 10 × 38 mm, 10 × 85 mm	LV HRC 1, 1L, 2L, 3L, 1XL, 2XL	LV HRC 000, 00, 1, 2, 3	Cylindrical 10 × 38 mm, 14 × 51 mm, 22 × 58 mm	Cylindrical –
gG, aM 0.5 ... 100	gPV 2 ... 20	gPV 63 ... 630	gS, gR, aR 6 ... 2400	gS, gR, aR 1 ... 125	– 0.6 ... 30
IEC 60269-1/-2 NF C 60-200 NF C 63-210/-211 NBN C 63269-2 CEI 32-4/-12 UL 4248-1; CSA	IEC 60269-6	IEC 60269-6	IEC 60269-4	IEC 60269-2	–
–	–	–	UL 4248-1 UL 4248-13	UL 4248-1 UL 4248-13	UL 4248-1 CSA C22.2
400 ... 690 400 ... 600 (UL/CSA) 20 ... 120	–	–	500 ... 2500 100 ... 150	690 ... 1500 600 ... 1500 (UL/CSA) 100	600 200
–	1000 ... 1500	1000 ... 1500	400 ... 1500	250 ... 1000	150 ... 300
–	30	30	–	–	–
See page 7/42	See page 7/42	See page 7/42	See page 7/42	See page 7/42	See page 7/42

NEOZED fuse links

Operational class gG

			Size D01	Size D02	Size D03
					
I_n	Identification color	Contacts	U_n AC/DC 400/250 V	U_n AC/DC 400/250 V	U_n AC/DC 400/250 V
2 A	Pink	–	5SE2302	–	–
4 A	Brown	–	5SE2304	–	–
6 A	Green	–	5SE2306	–	–
10 A	Red	–	5SE2310	–	–
13 A	Black	–	5SE2013-2A	–	–
16 A	Gray	–	5SE2316	–	–
20 A	Blue	Tin-coated	–	5SE2320	–
25 A	Yellow	Tin-coated	–	5SE2325	–
32 A	Violet	Tin-coated	–	5SE2332	–
35 A	Black	Tin-coated	–	5SE2335	–
40 A	Black	Silver-plated	–	5SE2340	–
50 A	White	Silver-plated	–	5SE2350	–
63 A	Copper	Silver-plated	–	5SE2363	–
80 A	Blue	–	–	–	5SE2280
100 A	Red	–	–	–	5SE2300

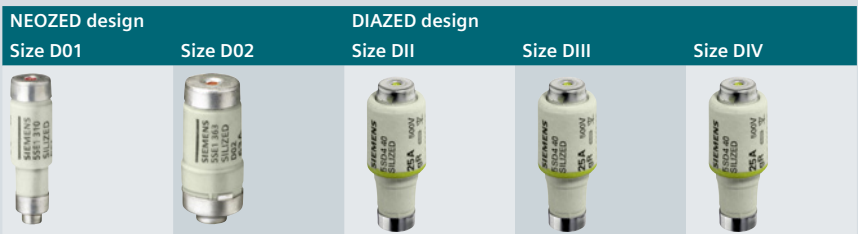
DIAZED fuse links

		Size DII E27		Size DIII ¹⁾ E33			Size DIV R 1¼"		Size TNDz E16	
Operational class		gG		gG			quick	gG	slow	
										
I_n	Identification color	U_n AC/DC 500/440 V 500/500 V		U_n AC/DC 500/440 V 690/600 V 750/750 V			U_n AC/DC 500/400 V	U_n AC/DC 500/440 V 500/500 V		
2 A	Pink	–	5SB211	–	5SD8002	5SD601	–	–	5SA211	
4 A	Brown	–	5SB221	–	5SD8004	5SD602	–	–	5SA221	
6 A	Green	–	5SB231	–	5SD8006	5SD603	–	–	5SA231	
10 A	Red	–	5SB251	–	5SD8010	5SD604	–	–	5SA251	
16 A	Gray	5SB2611	–	–	5SD8016	5SD605	–	5SA2611	–	
20 A	Blue	5SB2711	–	–	5SD8020	5SD606	–	5SA2711	–	
25 A	Yellow	5SB2811	–	–	5SD8025	5SD607	–	5SA2811	–	
32 A	Violet	–	–	5SB4011	–	–	–	–	–	
35 A	Black	–	–	5SB4111	5SD8035	5SD608	–	–	–	
50 A	White	–	–	5SB4211	5SD8050	5SD610	–	–	–	
63 A	Copper	–	–	5SB4311	5SD8063	5SD611	–	–	–	
80 A	Silver	–	–	–	–	–	5SC211	–	–	
100 A	Red	–	–	–	–	–	5SC221	–	–	

¹⁾ For 2 ... 25 A use screw adaptor DII

SILIZED fuse links

Operational class gR



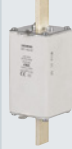
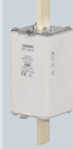




I_n	Switch-off I^2t value	Power loss P_v	NEOZED design		DIAZED design		
			Size D01	Size D02	Size DII	Size DIII	Size DIV
			U_n AC/DC 400/250 V	U_n AC/DC 400/250 V	U_n AC/DC 500/500 V	U_n AC/DC 500/500 V	U_n AC/DC 500/500 V
10 A	73 A ² s	6.9 W	5SE1310	–	–	–	–
16 A	60 A ² s	12.1 W	–	–	5SD420	–	–
	120 A ² s	6.2 W	5SE1316	–	–	–	–
20 A	139 A ² s	12.3 W	–	–	5SD430	–	–
	190 A ² s	8.1 W	–	5SE1320	–	–	–
25 A	205 A ² s	12.5 W	–	–	5SD440	–	–
	215 A ² s	8.2 W	–	5SE1325	–	–	–
30 A	310 A ² s	13.5 W	–	–	5SD480	–	–
35 A	470 A ² s	16.7 W	–	5SE1335	–	–	–
	539 A ² s	14.8 W	–	–	–	5SD450	–
50 A	1250 A ² s	18.5 W	–	–	–	5SD460	–
	1960 A ² s	12.0 W	–	5SE1350	–	–	–
63 A	1890 A ² s	28 W	–	–	–	5SD470	–
	4230 A ² s	15.5 W	–	5SE1363	–	–	–
80 A	4200 A ² s	34.3 W	–	–	–	–	5SD510
100 A	8450 A ² s	41.5 W	–	–	–	–	5SD520

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Photovoltaic cumulative fuse links

Operational class gPV

		Size 1	Size 1L	Size 2L	Size 3L	Size 1XL	Size 2XL
							
I_n DC	Power loss P_v	U_n DC 1000 V	U_n DC 1000 V	U_n DC 1000 V	U_n DC 1000 V	U_n DC 1500 V	U_n DC 1500 V
63 A	19 W	3NE1218-4	–	–	–	–	–
	20 W	–	–	–	–	3NE1218-5E	–
80 A	20 W	3NE1220-4	–	–	–	–	–
	25 W	–	–	–	–	3NE1220-5E	–
100 A	24 W	3NE1221-4	–	–	–	–	–
	30 W	–	–	–	–	3NE1221-5E	–
125 A	26 W	3NE1222-4	–	–	–	–	–
	29 W	–	–	–	–	3NE1222-5E	–
160 A	32 W	3NE1224-4	–	–	–	–	–
	34 W	–	–	–	–	3NE1224-5E	–
200 A	41 W	–	–	–	–	3NE1225-5E	–
	51 W	–	3NE1225-4D	–	–	–	–
250 A	53 W	–	–	–	–	–	3NE1327-5E
	54 W	–	3NE1227-4D	–	–	–	–
315 A	63 W	–	–	–	–	–	3NE1330-5E
	73 W	–	–	3NE1330-4D	–	–	–
400 A	82 W	–	–	3NE1332-4D	–	–	–
500 A	100 W	–	–	–	3NE1434-4E	–	–
630 A	110 W	–	–	–	3NE1436-4E	–	–

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LV HRC fuse links

Operational class gG, with combination alarm



I_n	Size 000			Size 00			Size 1		
	U_n AC 400 V	U_n AC/DC 500/250 V	690 ¹⁾ /250 V	U_n AC 400 V	U_n AC/DC 500/250 V	690 ¹⁾ /250 V	U_n AC 400 V	U_n AC/DC 500/440 V	690 ¹⁾ /440 V
Insulated grip lugs									
2 A	–	3NA6802	3NA6802-6	–	–	–	–	–	–
4 A	–	3NA6804	3NA6804-6	–	–	–	–	–	–
6 A	–	3NA6801	3NA6801-6	–	–	–	–	–	–
10 A	3NA6803-4	3NA6803	3NA6803-6	–	–	–	–	–	–
16 A	3NA6805-4	3NA6805	3NA6805-6	–	–	–	–	3NA6105	–
20 A	3NA6807-4	3NA6807	3NA6807-6	–	–	–	–	3NA6107	–
25 A	3NA6810-4	3NA6810	3NA6810-6	–	–	–	–	3NA6110	–
32 A	3NA6812-4	3NA6812	3NA6812-6	–	–	–	–	–	–
35 A	3NA6814-4	3NA6814	3NA6814-6	–	–	–	3NA6114-4	3NA6114	–
40 A	3NA6817-4	3NA6817	3NA6817-6KJ	–	–	3NA6817-6	3NA6117-4	3NA6117	–
50 A	3NA6820-4	3NA6820	3NA6820-6KJ	–	–	3NA6820-6	3NA6120-4	3NA6120	3NA6120-6
63 A	3NA6822-4	3NA6822	–	–	–	3NA6822-6	3NA6122-4	3NA6122	3NA6122-6
80 A	3NA6824-4	3NA6824	–	3NA6824-4KK	3NA6824-7	3NA6824-6	3NA6124-4	3NA6124	3NA6124-6
100 A	3NA6830-4	3NA6830	–	3NA6830-4KK	3NA6830-7	3NA6830-6	3NA6130-4	3NA6130	3NA6130-6
125 A	–	–	–	3NA6832-4	3NA6832	–	3NA6132-4	3NA6132	3NA6132-6
160 A	–	–	–	3NA6836-4	3NA6836	–	3NA6136-4	3NA6136	3NA6136-6
200 A	–	–	–	–	–	–	–	–	–
224 A	–	–	–	–	–	–	–	–	–
250 A	–	–	–	–	–	–	–	–	–
300 A	–	–	–	–	–	–	–	–	–
315 A	–	–	–	–	–	–	–	–	–
355 A	–	–	–	–	–	–	–	–	–
400 A	–	–	–	–	–	–	–	–	–
Non-insulated grip lugs									
2 A	–	3NA7802	3NA7802-6	–	–	–	–	–	–
4 A	–	3NA7804	3NA7804-6	–	–	–	–	–	–
6 A	–	3NA7801	3NA7801-6	–	–	–	–	–	–
10 A	–	3NA7803	3NA7803-6	–	–	–	–	–	–
16 A	–	3NA7805	3NA7805-6	–	–	–	–	3NA7105	–
20 A	–	3NA7807	3NA7807-6	–	–	–	–	3NA7107	–
25 A	–	3NA7810	3NA7810-6	–	–	–	–	3NA7110	–
32 A	–	3NA7812	3NA7812-6	–	–	–	–	–	–
35 A	–	3NA7814	3NA7814-6	–	–	–	–	3NA7114	–
40 A	–	3NA7817	3NA7817-6KJ	–	–	3NA7817-6	–	3NA7117	–
50 A	–	3NA7820	3NA7820-6KJ	–	–	3NA7820-6	–	3NA7120	3NA7120-6
63 A	–	3NA7822	–	–	–	3NA7822-6	–	3NA7122	3NA7122-6
80 A	–	3NA7824	–	–	3NA7824-7	3NA7824-6	–	3NA7124	3NA7124-6
100 A	–	3NA7830	–	–	3NA7830-7	3NA7830-6	–	3NA7130	3NA7130-6
125 A	–	–	–	–	3NA7832	–	–	3NA7132	3NA7132-6
160 A	–	–	–	–	3NA7836	–	–	3NA7136	3NA7136-6
200 A	–	–	–	–	–	–	–	–	–
224 A	–	–	–	–	–	–	–	–	–
250 A	–	–	–	–	–	–	–	–	–
300 A	–	–	–	–	–	–	–	–	–
315 A	–	–	–	–	–	–	–	–	–
355 A	–	–	–	–	–	–	–	–	–
400 A	–	–	–	–	–	–	–	–	–

¹⁾ Manufacturer's confirmation for 690 V +10% rated voltage available on request.







Size 1 47.2 mm			Size 2 47.2 mm			Size 2 57.8 mm		
								
U_n AC	U_n AC/DC		U_n AC	U_n AC/DC		U_n AC	U_n AC/DC	
400 V	500/440 V	690 ¹⁾ /440 V	400 V	500/440 V	690 ¹⁾ /440 V	400 V	500/440 V	690 ¹⁾ /440 V
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	3NA6214	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	3NA6220-4	3NA6220	-	-	-	-
-	-	-	3NA6222-4	3NA6222	-	-	-	-
-	-	-	3NA6224-4	3NA6224	3NA6224-6	-	-	-
-	-	-	3NA6230-4	3NA6230	3NA6230-6	-	-	-
-	-	-	3NA6232-4	3NA6232	3NA6232-6	-	-	-
-	-	-	3NA6236-4	3NA6236	3NA6236-6	-	-	-
3NA6140-4	3NA6140	3NA6140-6	3NA6240-4	3NA6240	3NA6240-6	-	-	-
3NA6142-4	3NA6142	-	3NA6242-4	3NA6242	-	-	-	3NA6242-6
3NA6144-4	3NA6144	-	3NA6244-4	3NA6244	-	-	-	3NA6244-6
-	-	-	-	-	-	3NA6250-4	3NA6250	3NA6250-6
-	-	-	-	-	-	3NA6252-4	3NA6252	3NA6252-6
-	-	-	-	-	-	3NA6254-4	3NA6254	-
-	-	-	-	-	-	3NA6260-4	3NA6260	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	3NA7214	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	3NA7220	-	-	-	-
-	-	-	-	3NA7222	-	-	-	-
-	-	-	-	3NA7224	3NA7224-6	-	-	-
-	-	-	-	3NA7230	3NA7230-6	-	-	-
-	-	-	-	3NA7232	3NA7232-6	-	-	-
-	-	-	-	3NA7236	3NA7236-6	-	-	-
-	3NA7140	3NA7140-6	-	3NA7240	3NA7240-6	-	-	-
-	3NA7142	-	-	3NA7242	-	-	-	3NA7242-6
-	3NA7144	-	-	3NA7244	-	-	-	3NA7244-6
-	-	-	-	-	-	-	-	3NA7250-6
-	-	-	-	-	-	-	3NA7252	3NA7252-6
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	3NA7260	-

LV HRC fuse links

Operational class gG, with front indicator









	Size 000			Size 00		Size 0	Size 1				
Mounting width	21 mm			30 mm		30 mm	30 mm			47.2 mm	
I_n	U_n AC/DC 400/250 V 500/250 V 690 ¹⁾ /250 V			U_n AC/DC 500/250 V 690 ¹⁾ /250 V		U_n AC/DC 500/440 V	U_n AC/DC 500/440 V 690 ¹⁾ /440 V			U_n AC/DC 500/440 V 690 ¹⁾ /440 V	
Non-insulated grip lugs											
2 A	-	3NA3802	3NA3802-6	-	-	-	-	-	-	-	-
4 A	-	3NA3804	3NA3804-6	-	-	-	-	-	-	-	-
6 A	-	3NA3801	3NA3801-6	-	-	3NA3001	-	-	-	-	-
10 A	-	3NA3803	3NA3803-6	-	-	3NA3003	-	-	-	-	-
16 A	-	3NA3805	3NA3805-6	-	-	3NA3005	3NA3105	-	-	-	-
20 A	-	3NA3807	3NA3807-6	-	-	3NA3007	3NA3107	-	-	-	-
25 A	-	3NA3810	3NA3810-6	-	-	3NA3010	3NA3110	-	-	-	-
32 A	-	3NA3812	3NA3812-6	-	-	3NA3012	-	-	-	-	-
35 A	-	3NA3814	3NA3814-6	3NA3814-7	-	3NA3014	3NA3114	-	-	-	-
40 A	-	3NA3817	3NA3817-6KJ	-	3NA3817-6	3NA3017	3NA3117	-	-	-	-
50 A	-	3NA3820	3NA3820-6KJ	3NA3820-7	3NA3820-6	3NA3020	3NA3120	3NA3120-6	-	-	-
63 A	-	3NA3822	-	3NA3822-7	3NA3822-6	3NA3022	3NA3122	3NA3122-6	-	-	-
80 A	-	3NA3824	-	3NA3824-7	3NA3824-6	3NA3024	3NA3124	3NA3124-6	-	-	-
100 A	-	3NA3830	-	3NA3830-7	3NA3830-6	3NA3030	3NA3130	3NA3130-6	-	-	-
125 A	3NA3832-8	-	-	3NA3832	-	3NA3032	3NA3132	3NA3132-6	-	-	-
160 A	3NA3836-8	-	-	3NA3836	-	3NA3036	3NA3136	3NA3136-6	-	-	-
200 A	-	-	-	-	-	-	-	-	3NA3140	3NA3140-6	-
224 A	-	-	-	-	-	-	-	-	3NA3142	-	-
250 A	-	-	-	-	-	-	-	-	3NA3144	3NA3144-6	-
300 A	-	-	-	-	-	-	-	-	-	-	-
315 A	-	-	-	-	-	-	-	-	-	-	-
355 A	-	-	-	-	-	-	-	-	-	-	-
400 A	-	-	-	-	-	-	-	-	-	-	-
425 A	-	-	-	-	-	-	-	-	-	-	-
500 A	-	-	-	-	-	-	-	-	-	-	-
630 A	-	-	-	-	-	-	-	-	-	-	-
800 A	-	-	-	-	-	-	-	-	-	-	-
1000 A	-	-	-	-	-	-	-	-	-	-	-
1250 A	-	-	-	-	-	-	-	-	-	-	-

¹⁾ Manufacturer's confirmation for 690 V +10% rated voltage available on request.

Size 2		Size 3				Size 4 (IEC design)		Size 4a	
47.2 mm		57.8 mm		57.8 mm		71.2 mm		101.8 mm	101.8 mm
									
U_n AC/DC		U_n AC/DC		U_n AC/DC		U_n AC/DC		U_n AC/DC	U_n AC/DC
500/440 V 690 ¹⁾ /440 V		500/440 V 690 ¹⁾ /440 V		500/440 V 690 ¹⁾ /440 V		500/440 V 690 ¹⁾ /440 V		500/440 V	500/440 V
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
3NA3214	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
3NA3220	-	-	-	-	-	-	-	-	-
3NA3222	-	-	-	-	-	-	-	-	-
3NA3224	3NA3224-6	-	-	-	-	-	-	-	-
3NA3230	3NA3230-6	-	-	-	-	-	-	-	-
3NA3232	3NA3232-6	-	-	-	-	-	-	-	-
3NA3236	3NA3236-6	-	-	-	-	-	-	-	-
3NA3240	3NA3240-6	-	-	3NA3340	-	-	-	-	-
3NA3242	-	-	3NA3242-6	3NA3342	-	-	-	-	-
3NA3244	-	-	3NA3244-6	3NA3344	3NA3344-6	-	-	-	-
-	-	3NA3250	3NA3250-6	3NA3350	-	-	-	-	-
-	-	3NA3252	3NA3252-6	3NA3352	3NA3352-6	-	-	-	-
-	-	3NA3254	-	3NA3354	-	-	3NA3354-6	-	-
-	-	3NA3260	-	3NA3360	-	-	3NA3360-6	-	-
-	-	-	-	-	-	3NA3362	3NA3362-6	-	-
-	-	-	-	-	-	3NA3365	3NA3365-6	-	3NA3665
-	-	-	-	-	-	3NA3372	-	3NA3472	3NA3672
-	-	-	-	-	-	-	-	3NA3475	3NA3675
-	-	-	-	-	-	-	-	3NA3480	3NA3680
-	-	-	-	-	-	-	-	3NA3482	3NA3682

LV HRC fuse links

Operational class aM, with front indicator

	Size 000	Size 00	Size 1	Size 2	Size 2	Size 3	Size 3	
Mounting width	21 mm	30 mm	30 mm	47.2 mm	47.2 mm	57.8 mm	57.8 mm	71.2 mm
								
I_n	U_n AC	U_n AC	U_n AC	U_n AC	U_n AC	U_n AC	U_n AC	U_n AC
	500 V	500 V	690 V	690 V	690 V	690 V	690 V	690 V
Non-insulated grip lugs								
6 A	3ND1801	–	–	–	–	–	–	–
10 A	3ND1803	–	–	–	–	–	–	–
16 A	3ND1805	–	–	–	–	–	–	–
20 A	3ND1807	–	–	–	–	–	–	–
25 A	3ND1810	–	–	–	–	–	–	–
32 A	3ND1812	–	–	–	–	–	–	–
35 A	3ND1814	–	–	–	–	–	–	–
40 A	3ND1817	–	–	–	–	–	–	–
50 A	3ND1820	–	–	–	–	–	–	–
63 A	3ND1822	–	3ND2122	–	–	–	–	–
80 A	3ND1824	–	3ND2124	–	–	–	–	–
100 A	3ND1830-8	3ND1830	3ND2130	–	–	–	–	–
125 A	–	3ND1832	–	3ND2132	3ND2232	–	–	–
160 A	–	3ND1836	–	3ND2136	3ND2236	–	–	–
200 A	–	–	–	3ND2140	3ND2240	–	–	–
250 A	–	–	–	3ND2144	3ND2244	–	–	–
315 A	–	–	–	–	–	3ND2252	3ND2352	–
355 A	–	–	–	–	–	3ND2254	3ND2354	–
400 A	–	–	–	–	–	3ND2260	3ND2360	–
500 A	–	–	–	–	–	–	–	3ND1365
630 A	–	–	–	–	–	–	–	3ND1372

7

3NA COM LV HRC fuse links with communication and measuring function **new**

With front indicator and non-insulated grip lugs

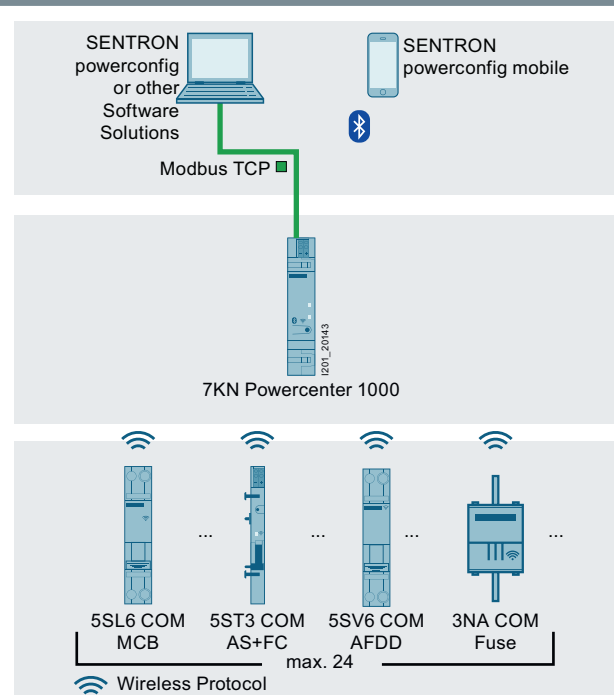
	Size 2, with electronic module ¹⁾		Size 2, without electronic module ²⁾	
	Operational class gG	Operational class gFF (for the Netherlands)	Operational class gG	Operational class gFF (for the Netherlands)
Mounting width	59 mm	59 mm	59 mm	59 mm
I_n	U_n AC 400 V	U_n AC 400 V	U_n AC 400 V	U_n AC 400 V
80 A	–	3NA3224-4KK03	–	3NA3224-4KK04
100 A	3NA3230-4KK01	3NA3230-4KK03	3NA3230-4KK02	3NA3230-4KK04
125 A	3NA3232-4KK01	3NA3232-4KK03	3NA3232-4KK02	3NA3232-4KK04
160 A	3NA3236-4KK01	3NA3236-4KK03	3NA3236-4KK02	3NA3236-4KK04
200 A	3NA3240-4KK01	3NA3240-4KK03	3NA3240-4KK02	3NA3240-4KK04
224 A	3NA3242-4KK01	–	3NA3242-4KK02	–
250 A	3NA3244-4KK01	3NA3244-4KK03	3NA3244-4KK02	3NA3244-4KK04
315 A	3NA3252-4KK01	–	3NA3252-4KK02	–

¹⁾ Electronic module is mounted by simple insertion

²⁾ For spare part purposes (electronic module can be reused after the fuse has been replaced!)



7KN Powercenter 1000 data transceiver



- Wireless radio transmission of measured values and data to the 7KN Powercenter 1000 data transceiver
- Commissioning, parameter assignment, firmware updates and further processing of the data via the 7KN Powercenter 1000 data transceiver



7KN Powercenter 1000	Article No.
	7KN1110-0MC00

See page 10/17

You will find further information under:

Installation manual – Circuit protection devices with communication and measuring function ([109791805](#))

System manual – Circuit protection devices with communication and measuring function ([109791806](#))



Monitoring functions (alarm) with limit monitoring

- Limit values can be set for:
 - Current/overcurrent > Limit value 1
 - Current/overcurrent > Limit value 2
 - Overtemperature
 - Operating hours counter
 - Operating hours counter with load current > Limit value
 - Values

Technical specifications	Electronic module for 3NA COM		
Current measuring range	2.5 ... 440 A (rms value)		
Measuring accuracy of current measurement/5-minute average of rms value	<ul style="list-style-type: none"> • At reference temperature 25 °C • In the range -10 °C ... +70 °C 		
Minimum current	5 A (to maintain the radio connection)		
Temperature measuring range	+20 ... +120 °C		
Measuring accuracy of temperature measurement	± 2.5 °C		
Active power input per phase during current measurement	50 mW		
Maximum transmit power	8 dBm		
Minimum/maximum ambient temperature during operation	-10 °C/+55 °C		
Minimum/maximum ambient temperature during storage	-10 °C/+70 °C		
Relative humidity at 25 °C without condensation	Max. 95 %		
Degree of protection IP	IP20		
Pollution degree	2		
Reference condition for measuring accuracy	IEC 61557-12		
Measuring method	TRMS		
Power supply	CT Harvesting		
European standards			
RED Safety	EN 60669-2-5		
RED Health	EN 62479		
RED EMV	EN 63044-3/-5-3, EN 301489-17, EN 300480-17		
RED Radio Spec	EN 300328		
International standards			
For EMC	EN 63044-5-3, IEC 61000-6-2, IEC 61000-4-2/-3/-4/-5/-6/-8/-11		
For shocks, bumps, free fall, environmental tests	IEC 60068-2-1/-2/-6/-27/-29/-30/-32		
Approvals	VDE, KEMA KEUR		
Measured values		Measuring interval	Storage time
Current			
Current (rms value)	A	10 s	1 h
Average current (rms value)	A	15 min	7 d
Minimum current	A	1 d	10 d
Maximum current	A	1 d	10 d
Temperature			
Temperature	°C	1 min	1 h
Average temperature	°C	15 min	7 d
Minimum temperature	°C	1 d	10 d
Maximum temperature	°C	1 d	10 d
Operating hours counter			
Operating hours counter	h	Unlimited	Unlimited
Operating hours counter with load current > Limit value	h	Unlimited	Unlimited

Cylindrical fuse links

Operational class gG

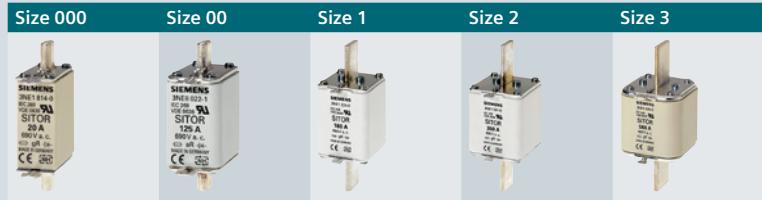
I_n	Size 8 × 32 mm		Size 10 × 38 mm		Size 14 × 51 mm		Size 22 × 58 mm	
	U_n AC 400 V		U_n AC 400 V	500 V	U_n AC 500 V	690 V	U_n AC 500 V	690 V
0.5 A	–		–	3NW6000-1	–	–	–	–
1 A	–		–	3NW6011-1	–	–	–	–
2 A	3NW6302-1		–	3NW6002-1	–	–	–	–
4 A	3NW6304-1		–	3NW6004-1	–	3NW6104-1	–	–
6 A	3NW6301-1		–	3NW6001-1	–	3NW6101-1	–	–
8 A	–		–	3NW6008-1	–	3NW6108-1	–	–
10 A	3NW6303-1		–	3NW6003-1	–	3NW6103-1	–	–
12 A	–		–	3NW6006-1	–	3NW6106-1	–	–
16 A	3NW6305-1		–	3NW6005-1	–	3NW6105-1	–	3NW6205-1
20 A	3NW6307-1		–	3NW6007-1	–	3NW6107-1	–	3NW6207-1
25 A	–		–	3NW6010-1	–	3NW6110-1	–	3NW6210-1
32 A	–		3NW6012-1	–	–	3NW6112-1	–	3NW6212-1
40 A	–		–	–	3NW6117-1	–	–	3NW6217-1
50 A	–		–	–	3NW6120-1	–	–	3NW6220-1
63 A	–		–	–	–	–	3NW6222-1	–
80 A	–		–	–	–	–	3NW6224-1	–
100 A	–		–	–	–	–	3NW6230-1	–

Operational class aM

I_n	Size 10 × 38 mm		Size 14 × 51 mm			Size 22 × 58 mm	
	U_n AC 400 V	500 V	U_n AC 400 V	500 V	690 V	U_n AC 500 V	690 V
0.5 A	–	3NW8000-1	–	–	–	–	–
1 A	–	3NW8011-1	–	–	–	–	–
2 A	–	3NW8002-1	–	–	3NW8102-1	–	–
4 A	–	3NW8004-1	–	–	3NW8104-1	–	–
6 A	–	3NW8001-1	–	–	3NW8101-1	–	–
8 A	–	3NW8008-1	–	–	3NW8108-1	–	–
10 A	–	3NW8003-1	–	–	3NW8103-1	–	–
12 A	–	3NW8006-1	–	–	3NW8106-1	–	–
16 A	–	3NW8005-1	–	3NW8105-1	–	–	3NW8205-1
20 A	3NW8007-1	–	–	3NW8107-1	–	–	3NW8207-1
25 A	3NW8010-1	–	–	3NW8110-1	–	–	3NW8210-1
32 A	3NW8012-1	–	–	3NW8112-1	–	–	3NW8212-1
40 A	–	–	–	3NW8117-1	–	–	3NW8217-1
50 A	–	–	3NW8120-1	–	–	–	3NW8220-1
63 A	–	–	–	–	–	3NW8222-1	–
80 A	–	–	–	–	–	3NW8224-1	–
100 A	–	–	–	–	–	3NW8230-1	–

SITOR semiconductor fuse links (LV HRC design)



Operational class gS, with blade contacts without slots



I_n	Switch-off I^2t value	Power loss P_v	Varying load factor WL	U_n AC 690 V ¹⁾	U_n AC 690 V ¹⁾	U_n AC 690 V ¹⁾	U_n AC 690 V ¹⁾	U_n AC 690 V ¹⁾
16 A	200 A ² s	4 W	1.00	3NE1813-0	–	–	–	–
20 A	430 A ² s	5 W	1.00	3NE1814-0	–	–	–	–
25 A	780 A ² s	5 W	1.00	3NE1815-0	–	–	–	–
35 A	1700 A ² s	3.5 W	1.00	3NE1803-0	–	–	–	–
40 A	3000 A ² s	3 W	1.00	3NE1802-0	–	–	–	–
50 A	4400 A ² s	6 W	1.00	3NE1817-0	–	–	–	–
63 A	9000 A ² s	7 W	1.00	3NE1818-0	–	–	–	–
80 A	18000 A ² s	8 W	1.00	3NE1820-0	–	–	–	–
100 A	33000 A ² s	10 W	1.00	–	3NE1021-0	–	–	–
125 A	63000 A ² s	11 W	1.00	–	3NE1022-0	–	–	–
160 A	60000 A ² s	24 W	1.00	–	–	3NE1224-0	–	–
200 A	100000 A ² s	27 W	1.00	–	–	3NE1225-0	–	–
250 A	200000 A ² s	30 W	1.00	–	–	3NE1227-0	–	–
315 A	310000 A ² s	38 W	1.00	–	–	3NE1230-0	–	–
350 A	430000 A ² s	42 W	1.00	–	–	–	3NE1331-0	–
400 A	590000 A ² s	45 W	1.00	–	–	–	3NE1332-0	–
450 A	750000 A ² s	53 W	1.00	–	–	–	3NE1333-0	–
500 A	950000 A ² s	56 W	1.00	–	–	–	3NE1334-0	–
560 A	1700000 A ² s	50 W	1.00	–	–	–	–	3NE1435-0
630 A	2350000 A ² s	55 W	1.00	–	–	–	–	3NE1436-0
710 A	3400000 A ² s	58 W	1.00	–	–	–	–	3NE1437-0
800 A	5000000 A ² s	58 W	1.00	–	–	–	–	3NE1438-0
Further information								
Installation in 3NH LV HRC fuse bases				■	■	■	■	■
Installation in 3NP and 3KF fuse switching devices				■	■	■	■	■

¹⁾ For the max. DC voltage, see the Configuration Manual "Fuse Systems", chapter "Configuration", "Use with direct current"

Operational class gR, with bolt-on links

				Size 000	Size 00
Screw fixing, mounting dimension				M8, 80 mm	M10, 80 mm
					
I_n	Switch-off I^2t value	Power loss P_v	Varying load factor WL	U_n AC/DC 690/700 V	U_n AC/DC 690/440 V
20 A	83 A ² s	7 W	0.90	3NE8714-1	–
25 A	140 A ² s	9 W	0.90	3NE8715-1	–
32 A	285 A ² s	10 W	0.90	3NE8701-1	–
40 A	490 A ² s	12 W	0.90	3NE8702-1	–
50 A	815 A ² s	15 W	0.90	3NE8717-1	–
80 A	3200 A ² s	23 W	On req.	–	3NE8020-3MK
100 A	5200 A ² s	29 W	On req.	–	3NE8021-3MK
Further information					
Screw fixing				■	■
Installation in SITOR fuse bases				2× 3NH5023	2× 3NH5023
Further currents, operational class aR				See page 7/52	See page 7/52

SITOR semiconductor fuse links (LV HRC design)

Operational class gR, with blade contacts without slots

Size 000



Size 00







Size 0



I_n	Switch-off I^2t value	Power loss P_v	Varying load factor WL	U_n AC/DC 690/400 V	U_n AC 690 V ¹⁾	U_n AC 1000 V ¹⁾
6 A	37 A ² s	2.7 W	On req.	3NE8810-OMK	–	–
10 A	50 A ² s	4.5 W	On req.	3NE8812-OMK	–	–
16 A	73 A ² s	6.7 W	On req.	3NE8813-OMK	–	–
20 A	90 A ² s	8 W	On req.	3NE8814-OMK	–	–
25 A	150 A ² s	8.1 W	On req.	3NE8815-OMK	–	–
	180 A ² s	7 W	0.95	–	3NE8015-1	–
32 A	280 A ² s	12 W	0.90	–	–	3NE4101
	350 A ² s	10.5 W	On req.	3NE8801-OMK	–	–
35 A	400 A ² s	9 W	0.95	–	3NE8003-1	–
40 A	480 A ² s	12 W	On req.	3NE8802-OMK	–	–
	500 A ² s	13 W	0.90	–	–	3NE4102
50 A	700 A ² s	14 W	0.90	–	3NE8017-1	–
	800 A ² s	16 W	0.90	–	–	3NE4117
	1050 A ² s	14.5 W	On req.	3NE8817-OMK	–	–
63 A	1400 A ² s	16 W	0.95	–	3NE8018-1	–
	1960 A ² s	23 W	On req.	3NE8818-OMK	–	–
80 A	5800 A ² s	10.5 W	1.00	–	3NE1020-2	–
100 A	11000 A ² s	12 W	1.00	–	3NE1021-2	–
125 A	23000 A ² s	13.5 W	1.00	–	3NE1022-2	–
160 A	18600 A ² s	32 W	1.00	–	–	–
200 A	51800 A ² s	35 W	1.00	–	–	–
250 A	80900 A ² s	37 W	1.00	–	–	–
315 A	168000 A ² s	40 W	1.00	–	–	–
350 A	177000 A ² s	43 W	1.00	–	–	–
400 A	224000 A ² s	50 W	1.00	–	–	–
450 A	276500 A ² s	58 W	1.00	–	–	–
500 A	398000 A ² s	64 W	1.00	–	–	–
560 A	890000 A ² s	60 W	1.00	–	–	–
630 A	1390000 A ² s	60 W	1.00	–	–	–
670 A	1640000 A ² s	64 W	1.00	–	–	–
710 A	1818000 A ² s	72 W	1.00	–	–	–
	2460000 A ² s	65 W	1.00	–	–	–
800 A	2475000 A ² s	84 W	1.00	–	–	–
	3350000 A ² s	72 W	1.00	–	–	–
850 A	3640000 A ² s	76 W	1.00	–	–	–
Further information						
Installation in 3NH LV HRC fuse bases				■	■	■
Installation in 3NP and 3KF fuse switching devices				■	■	■
Further currents, operational class aR				See page 7/53	–	See page 7/53

¹⁾ For the max. DC voltage, see the Configuration Manual "Fuse Systems", chapter "Configuration", "Use with direct current"

Size 1	Size 2	Size 3	
			
U_n AC 690 V ¹⁾	U_n AC 690 V ¹⁾	U_n AC 600 V ¹⁾	690 V ¹⁾
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
3NE1224-2	-	-	-
3NE1225-2	-	-	-
3NE1227-2	-	-	-
3NE1230-2	-	-	-
-	3NE1331-2	-	-
-	3NE1332-2	-	-
-	3NE1333-2	-	-
-	3NE1334-2	-	-
-	-	-	3NE1435-2
-	-	-	3NE1436-2
-	-	-	3NE1447-2
-	-	-	3NE1437-2
-	-	3NE1437-1	-
-	-	-	3NE1438-2
-	-	3NE1438-1	-
-	-	-	3NE1448-2
■	■	■	■
■	■	■	■
-	-	-	-

SITOR semiconductor fuse links (LV HRC design)

Operational class gR, with slotted blade contacts

Screw fixing, mounting dimension (lateral)

With 2 oblong slots
Size 3

M10, 110 mm



With oblong and transverse slots
Size 1

M10, 110 mm




I_n	Switch-off I^2t value	Power loss P_V	Varying load factor WL	U_n AC		U_n AC	
				500 V ¹⁾	690 V ¹⁾	690 V ¹⁾	1000/600 V
32 A	4500 A ² s	9 W	On req.	–	–	–	3NE3201-OMK
40 A	900 A ² s	26 W	On req.	–	–	–	–
	6000 A ² s	13 W	On req.	–	–	–	3NE3202-OMK
50 A	1800 A ² s	27 W	On req.	–	–	–	–
	8000 A ² s	18 W	On req.	–	–	–	3NE3217-OMK
63 A	3100 A ² s	34 W	On req.	–	–	–	–
	9000 A ² s	25 W	On req.	–	–	–	3NE3218-OMK
150 A	17600 A ² s	40 W	0.85	–	3NC8423-OC	–	–
	33000 A ² s	35 W	0.85	3NC2423-OC	–	–	–
160 A	18600 A ² s	32 W	1.00	–	–	3NE1224-3	–
200 A	38400 A ² s	55 W	0.85	–	3NC8425-OC	–	–
	51800 A ² s	35 W	1.00	–	–	3NE1225-3	–
	64000 A ² s	40 W	0.85	3NC2425-OC	–	–	–
250 A	70400 A ² s	72 W	0.85	–	3NC8427-OC	–	–
	80900 A ² s	37 W	1.00	–	–	3NE1227-3	–
	99000 A ² s	50 W	0.85	3NC2427-OC	–	–	–
300 A	132000 A ² s	65 W	0.85	3NC2428-OC	–	–	–
315 A	168000 A ² s	40 W	1.00	–	–	3NE1230-3	–
350 A	176000 A ² s	95 W	0.85	–	3NC8431-OC	–	–
	177000 A ² s	43 W	1.00	–	–	–	–
	249000 A ² s	60 W	0.85	3NC2431-OC	–	–	–
400 A	224000 A ² s	50 W	1.00	–	–	–	–
450 A	276500 A ² s	58 W	1.00	–	–	–	–
500 A	398000 A ² s	64 W	1.00	–	–	–	–
	448000 A ² s	130 W	0.85	–	3NC8434-OC	–	–
560 A	890000 A ² s	60 W	1.00	–	–	–	–
630 A	1390000 A ² s	60 W	1.00	–	–	–	–
670 A	1640000 A ² s	64 W	1.00	–	–	–	–
710 A	1818000 A ² s	72 W	1.00	–	–	–	–
800 A	2475000 A ² s	84 W	1.00	–	–	–	–
850 A	3640000 A ² s	76 W	1.00	–	–	–	–
1000 A	1400000 A ² s	138 W	1.00	–	–	–	–
1100 A	3000000 A ² s	110 W	1.00	–	–	–	–
1250 A	4100000 A ² s	104 W	1.00	–	–	–	–
1350 A	4800000 A ² s	126 W	1.00	–	–	–	–
1400 A	5200000 A ² s	127 W	1.00	–	–	–	–
1600 A	6900000 A ² s	152 W	1.00	–	–	–	–
1700 A	6400000 A ² s	179 W	1.00	–	–	–	–
1700 A	10000000 A ² s	143 W	1.00	–	–	–	–
1900 A	8200000 A ² s	196 W	1.00	–	–	–	–

Further information

Screw fixing	■	■	■	■
Installation in SITOR fuse bases	3NH5463	3NH5463	3NH5463	3NH5463
Installation in LV HRC fuse bases	■	■	■	■
Installation in fuse switching devices	■	■	■	■
Further currents, operational class aR	See page 7/56			

¹⁾ For the max. DC voltage, see the Configuration Manual "Fuse Systems", chapter "Configuration", "Use with direct current"

²⁾ Minimum clearance 90 mm

Size 2		Size 3		Size 3	Size 2 × 3	Size 3 × 3
M10, 110 (90) mm	M10, 170 mm	M10, 110 mm		M12, 110 mm	M12, 110 mm ²⁾	M12, 110 mm ²⁾
						
U_n AC 690 V ¹⁾	U_n AC/DC 1500/1000 V	U_n AC 500 V ¹⁾	U_n AC 690 V ¹⁾	U_n AC 690 V ¹⁾	U_n AC 690 V ¹⁾	U_n AC 690 V ¹⁾
-	-	-	-	-	-	-
-	3NE5302-0MK06	-	-	-	-	-
-	-	-	-	-	-	-
-	3NE5317-0MK06	-	-	-	-	-
-	-	-	-	-	-	-
-	3NE5318-0MK06	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	3NC8423-3C	-	-	-
-	-	3NC2423-3C	-	-	-	-
-	-	-	-	-	-	-
-	-	-	3NC8425-3C	-	-	-
-	-	-	-	-	-	-
-	-	3NC2425-3C	-	-	-	-
-	-	-	3NC8427-3C	-	-	-
-	-	-	-	-	-	-
-	-	3NC2427-3C	-	-	-	-
-	-	3NC2428-3C	-	-	-	-
-	-	-	-	-	-	-
-	-	-	3NC8431-3C	-	-	-
3NE1331-3	-	-	-	-	-	-
-	-	3NC2431-3C	-	-	-	-
3NE1332-3	-	-	-	-	-	-
3NE1333-3	-	-	-	-	-	-
3NE1334-3	-	-	-	-	-	-
-	-	-	3NC8434-3C	-	-	-
-	-	-	-	3NE1435-3	-	-
-	-	-	-	3NE1436-3	-	-
-	-	-	-	3NE1447-3	-	-
-	-	-	-	3NE1437-3	-	-
-	-	-	-	3NE1438-3	-	-
-	-	-	-	3NE1448-3	-	-
-	-	-	-	-	3NB3350-1KK26	-
-	-	-	-	-	3NB3351-1KK26	-
-	-	-	-	-	3NB3352-1KK26	-
-	-	-	-	-	3NB3354-1KK26	-
-	-	-	-	-	3NB3355-1KK26	-
-	-	-	-	-	3NB3357-1KK26	-
-	-	-	-	-	-	3NB3358-1KK27
-	-	-	-	-	3NB3358-1KK26	-
-	-	-	-	-	-	3NB3362-1KK27
■	■	■	■	■	■	■
3NH5463	3NH5463	3NH5463	3NH5463	3NH5463	-	-
■	■	■	■	■	-	-
■	■	■	■	■	-	-
-	-	See page 7/56	See page 7/56	See page 7/56	-	-

SITOR semiconductor fuse links (LV HRC design)

Operational class aR, with bolt-on links

Screw fixing, mounting dimension

Size 000

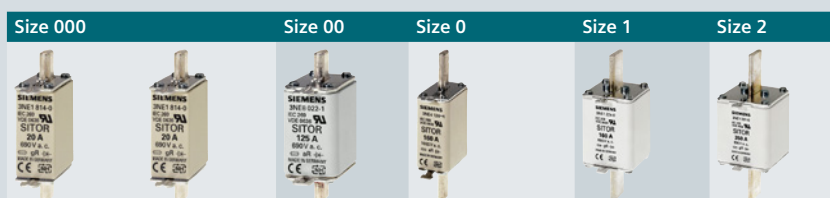
M8, 80 mm

M10, 80 mm



I_n	Switch-off I^2t value	Power loss P_v	Varying load factor WL	U_n AC/DC 690/700 V	U_n AC/DC 690/440 V
63 A	1550 A ² s	16 W	0.95	3NE8718-1	–
80 A	2700 A ² s	18 W	0.90	3NE8720-1	–
100 A	4950 A ² s	19 W	0.95	3NE8721-1	–
125 A	9100 A ² s	23 W	0.95	3NE8722-1	–
160 A	17000 A ² s	31 W	0.90	3NE8724-1	–
200 A	30000 A ² s	36 W	0.90	3NE8725-1	–
250 A	55000 A ² s	42 W	0.90	3NE8727-1	–
315 A	85500 A ² s	54 W	0.85	3NE8731-1	–
350 A	135000 A ² s	58.8 W	On req.	–	3NE8031-3MK
400 A	170000 A ² s	74.5 W	On req.	–	3NE8032-3MK
Further information					
Screw fixing				■	■
Installation in SITOR fuse bases				3NH5023	3NH5023
Further currents, operational class gR				See page 7/56	See page 7/56

Operational class aR, with blade contacts without slots



I_n	Switch-off I^2t value	Power loss P_v	Varying load factor WL	Size 000		Size 00		Size 0		Size 1		Size 2	
				U_n AC/DC 500/440 V	690/440 V	U_n AC 690 V ¹⁾	U_n AC 1000 V ¹⁾	U_n AC/DC 690/440 V	U_n AC/DC 690/440 V				
63 A	1500 A ² s	20 W	0.90	–	–	–	3NE4118	–	–	–	–	–	–
80 A	2200 A ² s	23.3 W	On req.	–	3NE8820-OMK	–	–	–	–	–	–	–	–
	2400 A ² s	19 W	0.95	–	–	3NE8020-1	–	–	–	–	–	–	–
	3000 A ² s	22 W	0.90	–	–	–	3NE4120	–	–	–	–	–	–
100 A	3650 A ² s	27 W	On req.	–	3NE8821-OMK	–	–	–	–	–	–	–	–
	4200 A ² s	22 W	0.95	–	–	3NE8021-1	–	–	–	–	–	–	–
	6000 A ² s	24 W	0.90	–	–	–	3NE4121	–	–	–	–	–	–
	6050 A ² s	25.5 W	On req.	–	–	–	–	3NE8221-OMK	–	–	–	–	–
125 A	6500 A ² s	28 W	0.95	–	–	3NE8022-1	–	–	–	–	–	–	–
	7800 A ² s	30 W	On req.	–	3NE8822-OMK	–	–	–	–	–	–	–	–
	8900 A ² s	28.5 W	On req.	–	–	–	–	3NE8222-OMK	–	–	–	–	–
	14000 A ² s	30 W	0.90	–	–	–	3NE4122	–	–	–	–	–	–
160 A	13000 A ² s	38 W	0.95	–	–	3NE8024-1	–	–	–	–	–	–	–
	14000 A ² s	34 W	On req.	3NE8824-OMK	–	–	–	–	–	–	–	–	–
	16200 A ² s	37 W	On req.	–	–	–	–	3NE8224-OMK	–	–	–	–	–
	29000 A ² s	35 W	0.90	–	–	–	3NE4124	–	–	–	–	–	–
200 A	26000 A ² s	49 W	On req.	–	–	–	–	3NE8225-OMK	–	–	–	–	
250 A	59000 A ² s	52 W	On req.	–	–	–	–	3NE8227-OMK	–	–	–	–	
315 A	120000 A ² s	68 W	On req.	–	–	–	–	3NE8230-OMK	–	–	–	–	
350 A	83500 A ² s	68.6 W	On req.	–	–	–	–	–	–	–	3NE8331-OMK	–	
400 A	136000 A ² s	72.8 W	On req.	–	–	–	–	–	–	–	3NE8332-OMK	–	
450 A	207000 A ² s	80.1 W	On req.	–	–	–	–	–	–	–	3NE8333-OMK	–	
500 A	318000 A ² s	77.5 W	On req.	–	–	–	–	–	–	–	3NE8334-OMK	–	
550 A	399000 A ² s	86.4 W	On req.	–	–	–	–	–	–	–	3NE8335-OMK	–	
630 A	740000 A ² s	90.7 W	On req.	–	–	–	–	–	–	–	3NE8336-OMK	–	
Further information													
Installation in 3NH LV HRC fuse bases				■	–	■	■	■	■	■	–	–	–
Installation in 3NP and 3KF fuse switching devices				■	–	■	■	■	■	■	–	–	–
Further currents, operational class gR				See page 7/48		–	See page 7/48		–	–	–	–	–

¹⁾ For the max. DC voltage, see the Configuration Manual "Fuse Systems", chapter "Configuration", "Use with direct current"

SITOR semiconductor fuse links (LV HRC design)

Operational class aR, with slotted blade contacts



I_n	Switch-off I^2t value	Power loss P_v	Varying load factor WL	U_n AC 500 V ¹⁾	U_n AC/DC 690/440 V	U_n AC 1000 V ¹⁾	U_n AC/DC 1000/600 V
80 A	3900 A ² s	42 W	On req.	–	–	–	–
100 A	3200 A ² s	25 W	On req.	–	3NE8221-3MK	–	–
	4800 A ² s	28 W	0.95	–	–	3NE3221	–
	8700 A ² s	45 W	On req.	–	–	–	–
125 A	6000 A ² s	28 W	On req.	–	3NE8222-3MK	–	–
	7200 A ² s	36 W	0.95	–	–	3NE3222	–
	11800 A ² s	59 W	On req.	–	–	–	–
160 A	10500 A ² s	35 W	On req.	–	3NE8224-3MK	–	–
	13000 A ² s	42 W	1.00	–	–	3NE3224	–
	37000 A ² s	54 W	On req.	–	–	–	–
200 A	17500 A ² s	42 W	On req.	–	3NE8225-3MK	–	–
	30000 A ² s	42 W	1.00	–	–	3NE3225	–
	70000 A ² s	56 W	On req.	–	–	–	–
250 A	28500 A ² s	53.5 W	On req.	–	3NE8227-3MK	–	–
	29700 A ² s	105 W	0.85	–	–	–	–
	48000 A ² s	50 W	1.00	–	–	3NE3227	–
	165000 A ² s	59 W	On req.	–	–	–	–
315 A	53500 A ² s	61 W	On req.	–	3NE8230-3MK	–	–
	60700 A ² s	120 W	0.85	–	–	–	–
	80000 A ² s	60 W	0.95	–	–	3NE3230-0B	–
	250000 A ² s	76 W	On req.	–	–	–	–
	300000 A ² s	245 W	On req.	–	–	–	–
350 A	66000 A ² s	69 W	On req.	–	3NE8231-3MK	–	–
	100000 A ² s	75 W	0.95	–	–	3NE3231	–
400 A	110000 A ² s	70.5 W	On req.	–	3NE8232-3MK	–	–
	135000 A ² s	80 W	1.00	–	–	–	–
		85 W	0.90	–	–	3NE3232-0B	–
	390000 A ² s	50 W	0.85	3NC2432-0C	–	–	–
450 A	470000 A ² s	89 W	On req.	–	–	–	–
	175000 A ² s	90 W	1.00	–	–	–	–
		95 W	0.90	–	–	3NE3233	–
	180000 A ² s	71 W	On req.	–	3NE8233-3MK	–	–
500 A	191000 A ² s	140 W	0.85	–	–	–	–
	215000 A ² s	84 W	On req.	–	3NE8234-3MK	–	–
	260000 A ² s	90 W	1.00	–	–	–	–
	276000 A ² s	155 W	0.85	–	–	–	–
	500000 A ² s	105 W	On req.	–	–	–	3NE3234-0MK08
550 A	800000 A ² s	109 W	On req.	–	–	–	–
	290000 A ² s	87 W	On req.	–	3NE8235-3MK	–	–
560 A	700000 A ² s	110 W	On req.	–	–	–	3NE3235-0MK08
	360000 A ² s	95 W	1.00	–	–	–	–
630 A	440000 A ² s	96 W	On req.	–	3NE8236-3MK	–	–
	600000 A ² s	100 W	1.00	–	–	–	–
	850000 A ² s	127 W	On req.	–	–	–	3NE3236-0MK08
	1100000 A ² s	163 W	On req.	–	–	–	–
710 A	800000 A ² s	105 W	1.00	–	–	–	–
	923000 A ² s	155 W	0.95	–	–	–	–
800 A	850000 A ² s	130 W	0.95	–	–	–	–
900 A	920000 A ² s	165 W	0.95	–	–	–	–

Further information

Screw fixing	■	■	■	■
Installation in SITOR fuse bases	3NH5463	3NH5423	3NH5463	3NH5463
Installation in 3NH LV HRC fuse bases	■	–	■	–
Installation in 3NP and 3KF fuse switching devices	■	–	■	–
Further currents, operational class gR	See page 7/46	–	–	–

¹⁾ For the max. DC voltage, see the Configuration Manual "Fuse Systems", chapter "Configuration", "Use with direct current"

Size 2

M10, 110 mm



M10, 170 mm



M10, 190 mm



M12, 260 mm









U_n AC 690 V ¹⁾	800 V ¹⁾	800 V ¹⁾	900 V ¹⁾	1000 V ¹⁾	U_n AC/DC 1500/1000 V	U_n AC/DC 1500/1000 V	U_n DC 3000 V
-	-	-	-	-	3NE5320-0MK06	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	3NE5321-0MK06	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	3NE5322-0MK06	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	3NE5324-0MK06	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	3NE5325-0MK06	-	-
-	-	-	-	-	-	-	-
-	-	3NE4327-0B	-	-	-	-	-
-	-	-	-	-	3NE5327-0MK06	-	-
-	-	-	-	-	-	-	-
-	-	3NE4330-0B	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	3NE5330-0MK06	-	-
-	-	-	-	-	-	-	3NE9330-0MK07
-	-	-	-	-	-	-	-
-	-	-	-	3NE3332-0B	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	3NE5332-0MK06	-	-
-	-	-	-	3NE3333	-	-	-
-	-	-	-	-	-	-	-
-	-	3NE4333-0B	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	3NE3334-0B	-	-	-
-	-	3NE4334-0B	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	3NE5334-0MK06	-	-
-	-	-	-	-	-	-	-
-	-	-	-	3NE3335	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	3NE3336	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	3NE5336-0MK06	3NE5336-0MK66	-
-	-	-	3NE3337-8	-	-	-	-
-	-	3NE4337	-	-	-	-	-
-	3NE3338-8	-	-	-	-	-	-
3NE3340-8	-	-	-	-	-	-	-
■	■	■	■	■	■	■	■
3NH5463	3NH5463	3NH5463	3NH5463	3NH5463	3NH5473	3NH5473	-
■	■	■	■	■	-	-	-
■	■	■	■	■	-	-	-
-	-	-	-	-	See page 7/46	-	-

SITOR semiconductor fuse links (LV HRC design)

Operational class aR, with slotted blade contacts

Screw fixing, mounting dimension				With oblong and transverse slots Size 3						
				M10, 110 mm		M10, 130 mm	M10, 170 mm	M10, 210 mm		
I_n	Switch-off I^2t value	Power loss P_v	Varying load factor WL	U_n AC 500 V ¹⁾		U_n AC 1000 V ¹⁾	U_n AC 1500 V ¹⁾	U_n AC 1500 V ¹⁾		U_n AC 2000 V ¹⁾
					600 V ¹⁾					
100 A	13500 A ² s	25 W	1.00	–	–	3NE3421-OC	–	–	–	–
125 A	34500 A ² s	78 W	1.00	–	–	–	–	–	–	–
160 A	54000 A ² s	56 W	1.00	–	–	–	–	3NE5424-OC	–	–
200 A	138000 A ² s	75 W	1.00	–	–	–	–	–	–	3NE7425-OU
224 A	54000 A ² s	85 W	1.00	–	–	3NE3626-OC	–	–	–	–
	138000 A ² s	80 W	1.00	–	–	–	–	3NE5426-OC	–	–
250 A	84000 A ² s	130 W	1.00	–	–	–	3NE5627-OC	–	–	–
	218000 A ² s	110 W	1.00	–	–	–	–	–	–	3NE7427-OU
315 A	72500 A ² s	80 W	0.95	–	–	–	–	–	–	–
	218000 A ² s	80 W	1.00	–	–	3NE3430-OC	–	–	–	–
	311000 A ² s	115 W	1.00	–	–	–	–	3NE5430-OC	–	–
350 A	428000 A ² s	135 W	1.00	–	–	–	–	3NE5431-OC	–	–
	555000 A ² s	120 W	1.00	–	–	–	–	–	–	3NE7431-OU
400 A	163000 A ² s	95 W	0.95	–	–	–	–	–	–	–
	364000 A ² s	110 W	1.00	–	–	3NE3432-OC	–	–	–	–
	390000 A ² s	50 W	0.85	3NC2432-3C	–	–	–	–	–	–
	620000 A ² s	205 W	1.00	–	–	–	–	–	–	–
450 A	870000 A ² s	150 W	1.00	–	–	–	–	–	–	3NE7432-OU
	488000 A ² s	110 W	1.00	–	–	3NE3635-OC	–	–	–	–
	590000 A ² s	160 W	1.00	–	–	–	3NE5633-OC	–	–	–
	870000 A ² s	145 W	0.95	–	–	–	–	3NE5433-OC	–	–
	960000 A ² s	160 W	1.00	–	–	–	–	–	–	3NE7633-OU
500 A	290000 A ² s	115 W	0.90	–	–	–	–	–	–	–
	870000 A ² s	95 W	1.00	–	–	3NE3434-OC	–	–	–	–
	1270000 A ² s	235 W	1.00	–	–	–	–	–	–	–
525 A	1120000 A ² s	210 W	1.00	–	–	–	–	–	–	
600 A	1950000 A ² s	145 W	1.00	–	–	–	3NE5643-OC	–	–	–
630 A	244000 A ² s	120 W	0.85	–	–	–	–	–	–	–
	418000 A ² s	145 W	0.85	–	–	–	–	–	–	–
	650000 A ² s	120 W	0.95	–	–	–	–	–	–	–
	1280000 A ² s	132 W	1.00	–	–	3NE3636-OC	–	–	–	–
	1950000 A ² s	220 W	1.00	–	–	–	–	–	–	3NE7636-OU
	2800000 A ² s	275 W	1.00	–	–	–	–	–	–	–
710 A	346000 A ² s	130 W	0.85	–	–	–	–	–	–	–
	569000 A ² s	150 W	0.85	–	–	–	–	–	–	–
	1950000 A ² s	145 W	1.00	–	–	3NE3637-OC	–	–	–	–
	3110000 A ² s	275 W	1.00	–	–	–	–	–	–	–
800 A	498000 A ² s	135 W	0.90	–	–	–	–	–	–	–
	819000 A ² s	155 W	0.85	–	–	–	–	–	–	–
	985000 A ² s	145 W	0.90	–	–	–	–	–	–	–
900 A	677000 A ² s	145 W	0.90	–	–	–	–	–	–	–
	1160000 A ² s	165 W	0.90	–	–	–	–	–	–	–
1000 A	975000 A ² s	155 W	0.95	–	–	–	–	–	–	–
	1670000 A ² s	170 W	0.90	–	–	–	–	–	–	–
	2480000 A ² s	140 W	0.85	–	3NC8444-3C	–	–	–	–	–
1100 A	1382000 A ² s	165 W	0.95	–	–	–	–	–	–	–
	1910000 A ² s	185 W	0.90	–	–	–	–	–	–	–
1250 A	1990000 A ² s	175 W	0.95	–	–	–	–	–	–	–
	2600000 A ² s	210 W	0.90	–	–	–	–	–	–	–
1400 A	2100000 A ² s	200 W	0.95	–	–	–	–	–	–	–
1600 A	2860000 A ² s	240 W	0.90	–	–	–	–	–	–	–
Further information										
Screw fixing				■	■	■	■	■	■	■
Installation in SITOR fuse bases				3NH5463	3NH5463	–	3NH5463	–	–	–
Installation in 3NH LV HRC fuse bases				■	■	–	–	–	–	–
Installation in 3NP and 3KF fuse switching devices				■	■	–	–	–	–	–
Further currents, operational class gR				See page 7/50		–	–	–	–	–

¹⁾ For the max. DC voltage, see the Configuration Manual „Fuse Systems“, chapter “Configuration”, “Use with direct current”

M12, 80 mm		M12, 110 mm				M12, 140 mm	M12, 210 mm		M12, 260 mm
									
U_n AC 500 V ¹⁾	690 V ¹⁾	U_n AC 800 V ¹⁾	1000 V ¹⁾	1100 V ¹⁾	1250 V ¹⁾	U_n AC 1000 V ¹⁾	U_n AC 1500 V ¹⁾	2000 V ¹⁾	U_n AC 2500 V ¹⁾
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	3NE9622-1C
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	3NC3430-1U	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	3NC3432-1U	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	3NE9632-1C
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	3NE5433-1C	-	-
-	-	-	-	-	-	-	-	3NE7633-1U	-
-	-	-	-	-	3NC3434-1U	-	-	-	-
-	-	-	-	-	-	-	-	-	3NE9634-1C
-	-	-	-	-	-	-	-	3NE7648-1U	-
-	-	-	-	-	-	-	-	-	-
-	3NC3236-1U	-	-	-	-	-	-	-	-
-	-	-	3NC3336-1U	-	-	-	-	-	-
-	-	-	-	-	3NC3436-1U	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	3NE7636-1U	-
-	-	-	-	-	-	-	-	-	3NE9636-1C
-	3NC3237-1U	-	-	-	-	-	-	-	-
-	-	-	3NC3337-1U	-	-	-	-	-	-
-	-	-	-	-	-	3NE3637-1C	-	-	-
-	-	-	-	-	-	-	-	3NE7637-1U	-
-	3NC3238-1U	-	-	-	-	-	-	-	-
-	-	-	3NC3338-1U	-	-	-	-	-	-
-	-	-	-	3NC3438-1U	-	-	-	-	-
-	3NC3240-1U	-	-	-	-	-	-	-	-
-	-	-	3NC3340-1U	-	-	-	-	-	-
-	3NC3241-1U	-	-	-	-	-	-	-	-
-	-	-	3NC3341-1U	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	3NC3242-1U	-	-	-	-	-	-	-	-
-	-	3NC3342-1U	-	-	-	-	-	-	-
-	3NC3243-1U	-	-	-	-	-	-	-	-
-	-	3NC3343-1U	-	-	-	-	-	-	-
3NC3244-1U	-	-	-	-	-	-	-	-	-
3NC3245-1U	-	-	-	-	-	-	-	-	-
■	■	■	■	■	■	■	■	■	■
-	-	3NH5463	3NH5463	3NH5463	3NH5463	-	-	-	-
-	-	■	■	■	■	-	-	-	-
-	-	■	■	■	■	-	-	-	-
-	-	-	-	-	-	-	-	-	-

SITOR semiconductor fuse links (LV HRC design)

Operational class aR, with female thread at both ends

Screw fixing, flange dimension

Size 3

M10, 109 mm



M12, 52 mm



I_n	Operating value I^2t	Power loss P_v	Varying load factor WL	Size 3		690 V
				U_n AC 1000 V	U_n AC 500 V	
315 A	72500 A ² s	80 W	0.95	–	–	–
400 A	163000 A ² s	95 W	0.95	–	–	–
450 A	488000 A ² s	110 W	1.00	3NE3635-6	–	–
500 A	290000 A ² s	115 W	0.90	–	–	–
630 A	244000 A ² s	125 W	0.90	–	–	3NC3236-6U
	418000 A ² s	130 W	0.90	–	–	–
	650000 A ² s	120 W	0.95	–	–	–
710 A	346000 A ² s	130 W	0.90	–	–	3NC3237-6U
	569000 A ² s	140 W	0.90	–	–	–
800 A	498000 A ² s	135 W	0.95	–	–	3NC3238-6U
	819000 A ² s	150 W	0.90	–	–	–
	985000 A ² s	145 W	0.95	–	–	–
900 A	677000 A ² s	140 W	0.95	–	–	3NC3240-6U
	1160000 A ² s	160 W	0.95	–	–	–
1000 A	975000 A ² s	145 W	1.00	–	–	3NC3241-6U
	1670000 A ² s	165 W	0.95	–	–	–
1100 A	1382000 A ² s	150 W	1.00	–	–	3NC3242-6U
	1910000 A ² s	175 W	0.95	–	–	–
1250 A	1990000 A ² s	155 W	1.00	–	–	3NC3243-6U
	2600000 A ² s	185 W	0.95	–	–	–
1400 A	2100000 A ² s	175 W	1.00	–	3NC3244-6U	–
1600 A	2860000 A ² s	195 W	0.95	–	3NC3245-6U	–

Further information

Screw fixing

■

■

■

M12, 73 mm



M12, 73 mm

 U_n AC

800 V

1000 V

 U_n AC

1100 V

1250 V

–	–	–	3NC3430-6U
–	–	–	3NC3432-6U
–	–	–	–
–	–	–	3NC3434-6U
–	–	–	–
–	3NC3336-6U	–	–
–	–	–	3NC3436-6U
–	–	–	–
–	3NC3337-6U	–	–
–	–	–	–
–	3NC3338-6U	–	–
–	–	3NC3438-6U	–
–	–	–	–
–	3NC3340-6U	–	–
–	–	–	–
–	3NC3341-6U	–	–
–	–	–	–
3NC3342-6U	–	–	–
–	–	–	–
3NC3343-6U	–	–	–
–	–	–	–
–	–	–	–



SITOR semiconductor fuse links (LV HRC design)

Operational class gR, special designs

Screw fixing, flange dimension

Without installation bracket With installation bracket
For SITOR 6QG11 thyristor sets

M10, 89 mm



I_n	Switch-off I^2t value	Power loss P_v	Varying load factor WL	U_n AC 600 V	U_n AC 1000 V
50 A	1100 A ² s	20 W	0.85	–	3NE4117-5
850 A	2480000 A ² s	85 W	1.00	3NE9440-6	–
Further information					
Screw fixing				■	■

Operational class aR, special designs

Flange dimension

Without installation bracket
For screwing onto water-cooled busbars

83 mm



I_n	Switch-off I^2t value	Power loss P_v	Varying load factor WL	U_n AC		U_n AC	
				600 V	900 V	800 V	1000 V
100 A	7400 A ² s	35 W	0.85	–	–	–	–
170 A	60500 A ² s	43 W	0.85	–	–	–	–
200 A	44000 A ² s	50 W	0.85	–	–	–	–
250 A	29700 A ² s	105 W	0.85	–	–	–	–
	635000 A ² s	25 W	0.90	–	–	–	–
315 A	60700 A ² s	120 W	0.85	–	–	–	–
350 A	260000 A ² s	80 W	0.90	–	–	3NC5531	–
	1430000 A ² s	32 W	0.90	–	–	–	–
450 A	191000 A ² s	140 W	0.85	–	–	–	–
	395000 A ² s	90 W	0.85	–	–	–	–
500 A	276000 A ² s	155 W	0.85	–	–	–	–
600 A	888000 A ² s	150 W	0.90	–	–	–	3NC5840
630 A	888000 A ² s	145 W	0.90	–	–	3NC5841	–
710 A	620000 A ² s	150 W	0.90	–	3NE6437-7	–	–
	923000 A ² s	155 W	0.95	–	–	–	–
800 A	1728000 A ² s	170 W	0.90	–	–	–	3NC5838
900 A	1920000 A ² s	170 W	0.90	–	–	–	–
1250 A	2480000 A ² s	210 W	0.90	3NE9450-7	–	–	–
Further information				■	■	■	■
Screw fixing				■	■	■	■

For air-cooled rectifiers
in electrolysis systems

89 mm



U_n AC
600 V

900 V

For mounting directly in the
railway supply rectifier



U_n AC
680 V

For SITOR 6QG12
thyristor sets

77 mm



U_n AC
800 V

With installation bracket

For SITOR 6QG10
thyristor sets



U_n AC
1000 V

For SITOR 6QG11
thyristor sets




U_n AC
1000 V

–	–	–	–	–	3NE4121-5
–	–	–	–	–	3NE4146-5
–	–	–	–	3NE3525-5	–
–	–	–	3NE4327-6B	–	–
–	–	3NC7327-2	–	–	–
–	–	–	3NE4330-6B	–	–
–	–	–	–	–	–
–	–	3NC7331-2	–	–	–
–	–	–	3NE4333-6B	–	–
–	–	–	–	3NE3535-5	–
–	–	–	3NE4334-6B	–	–
–	–	–	–	–	–
–	–	–	–	–	–
–	3NE6437	–	–	–	–
–	–	–	3NE4337-6	–	–
–	–	–	–	–	–
–	3NE6444	–	–	–	–
3NE9450	–	–	–	–	–



SITOR semiconductor fuse links (LV HRC design)

DC fuses, operational class gR, with slotted blade contacts

Size 2L				
Screw fixing M12				
				
I_n	Switch-off I^2t value	Power loss P_v	Varying load factor WL	U_n DC 900 V
400 A	180000 A ² s ¹⁾	75 W	–	3NB1234-3KK20
Further information				
Screw fixing				

¹⁾ I^2t at U_{VSI} 1400 V is 240000 A²s

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DC fuses, operational class aR, with slotted blade contacts

I_n	Switch-off I^2t value at U_{VSI} 1500 V ²⁾	Power loss P_v	Varying load factor WL	Size 1L	Size 2L	Size 3L	Size 2 × 3L	Size 3 × 3L
				M12	M12	M12	M12	M12
200 A	39000 A ² s	50 W	–					
250 A	80500 A ² s	51 W	–	3NB1126-4KK11	–	–	–	–
315 A	129000 A ² s	63 W	–	–	3NB1128-4KK11	–	–	–
400 A	290000 A ² s	68 W	–	–	3NB1231-4KK11	–	–	–
500 A	600000 A ² s	89 W	–	–	3NB1234-4KK11	–	–	–
800 A	1910000 A ² s	135 W	–	–	–	3NB1337-4KK11	–	–
800 A	1150000 A ² s	160 W	–	–	–	3NB1345-4KK11	–	–
1000 A	2250000 A ² s	195 W	–	–	–	–	3NB2345-4KK16	–
1400 A	5100000 A ² s	250 W	–	–	–	–	3NB2350-4KK16	–
1600 A	7450000 A ² s	275 W	–	–	–	–	3NB2355-4KK16	–
2100 A	11950000 A ² s	365 W	–	–	–	–	3NB2357-4KK16	–
2400 A	18100000 A ² s	445 W	–	–	–	–	–	3NB2364-4KK17
2400 A	18100000 A ² s	445 W	–	–	–	–	–	3NB2366-4KK17
Further information								
Screw fixing				■	■	■	■	■

²⁾ I^2t at U_n 1250 V is reduced by the factor $k=0.79$.

SITOR semiconductor fuse links (cylindrical fuse design)

Cylindrical fuses, operational class gS

Size 22 × 127 mm



I_n	Switch-off I^2t value	Power loss P_v	U_n AC/DC 1500/1000 V
1 A	2 A ² s	2 W	3NC2301-OMK
2 A	4.4 A ² s	2.5 W	3NC2302-OMK
4 A	55 A ² s	5.3 W	3NC2304-OMK
6 A	150 A ² s	6.4 W	3NC2306-OMK
10 A	540 A ² s	3.1 W	3NC2310-OMK
16 A	1120 A ² s	4.7 W	3NC2316-OMK
20 A	2850 A ² s	5.4 W	3NC2320-OMK
25 A	3300 A ² s	6.9 W	3NC2325-OMK
32 A	9050 A ² s	6.7 W	3NC2332-OMK
Further information			
Installation in SITOR fuse holders			3NC23
Further currents, operational class gR			See page 7/64
Further currents, operational class aR			See page 7/66

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SITOR semiconductor fuse links (cylindrical fuse design)

Operational class gR

Size 10 × 38 mm







Size 14 × 51 mm



I_n	Switch-off I^2t value	Power loss P_v	U_n AC/DC		U_n AC/DC			
			690/440 V	690/250 V	690/700 V ¹⁾	690/600 V	690/440 V	690/250 V
6 A	3.5 A ² s	3.1 W	–	–	3NC1406-OMK	–	–	–
	6.5 A ² s	2.5 W	3NC1006-OMK	–	–	–	–	–
10 A	15 A ² s	4.6 W	–	–	3NC1410-OMK	–	–	–
	17 A ² s	4.3 W	–	–	–	–	–	–
	18 A ² s	3.3 W	3NC1010-OMK	–	–	–	–	–
12 A	35 A ² s	4 W	3NC1012-OMK	–	–	–	–	–
16 A	32 A ² s	6.7 W	–	–	–	3NC1416-OMK	–	–
	45 A ² s	6 W	3NC1016-OMK	–	–	–	–	–
	52 A ² s	4.4 W	–	–	–	–	–	–
20 A	68 A ² s	7.4 W	–	–	–	3NC1420-OMK	–	–
	90 A ² s	6.5 W	–	–	–	–	–	–
	110 A ² s	7.8 W	–	3NC1020-OMK	–	–	–	–
25 A	108 A ² s	8.4 W	–	–	–	3NC1425-OMK	–	–
	120 A ² s	9.5 W	–	–	–	–	–	–
	140 A ² s	8.7 W	–	3NC1025-OMK	–	–	–	–
	160 A ² s	8.5 W	–	–	–	–	–	–
	180 A ² s	8.1 W	–	–	–	–	–	–
32 A	175 A ² s	12.3 W	–	–	–	3NC1432-OMK	–	–
	220 A ² s	12.3 W	–	–	–	–	–	–
	400 A ² s	8.9 W	–	–	–	–	–	–
	420 A ² s	9 W	–	–	–	–	–	–
	450 A ² s	12 W	–	3NC1032-OMK	–	–	–	–
40 A	400 A ² s	14.8 W	–	–	–	–	–	–
	470 A ² s	11.7 W	–	–	–	3NC1440-OMK	–	–
	600 A ² s	11 W	–	–	–	–	–	–
	700 A ² s	12.5 W	–	–	–	–	–	–
	1850 A ² s	9.4 W	–	–	–	–	–	–
50 A	830 A ² s	16.3 W	–	–	–	–	–	3NC1450-OMK
	980 A ² s	17.5 W	–	–	–	–	–	–
	1250 A ² s	13.8 W	–	–	–	–	–	–
	1250 A ² s	15.2 W	–	–	–	–	–	–
63 A	2050 A ² s	18.8 W	–	–	–	–	–	–
	2400 A ² s	17.5 W	–	–	–	–	–	–
80 A	4400 A ² s	23 W	–	–	–	–	–	–
100 A	11500 A ² s	28.7 W	–	–	–	–	–	–
Further information			–	–	–	–	–	–
Screw fixing			–	–	–	–	–	–
Installation in SITOR fuse holders			3NC109.	3NC109.	3NC149.	3NC149.	3NC149.	3NC149.
Installation in SITOR fuse bases			–	–	–	–	–	–
Further currents, operational class gS			–	–	–	–	–	–
Further currents, operational class aR			–	–	–	–	–	–

¹⁾ DC voltage according to UL

Size 22 × 58 mm				Size 22 × 127 mm	With M8 bolt-on links Size 18 × 88 mm	Size 26 × 103 mm
						
U_n AC/DC 690/700 V ¹⁾	690/600 V	690/440 V	690/250 V	U_n AC/DC 1500/1000 V	U_n AC/DC 690/440 V	U_n AC/DC 690/440 V
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	3NC1810-OMK	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	3NC1816-OMK	-
-	-	-	-	-	-	-
-	-	-	-	-	3NC1820-OMK	-
-	-	-	-	-	-	-
-	-	-	-	-	-	3NC2625-OMK
-	-	-	-	-	-	-
-	-	-	-	-	3NC1825-OMK	-
3NC2225-OMK	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	3NC2632-OMK
-	-	-	-	-	3NC1832-OMK	-
-	3NC2232-OMK	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	3NC2640-OMK
-	-	-	-	-	-	-
-	-	-	-	-	3NC1840-OMK	-
-	-	3NC2240-OMK	-	-	-	-
-	-	-	-	3NC2340-OMK	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	3NC2650-OMK
-	-	-	-	-	3NC1850-OMK	-
-	-	-	3NC2250-OMK	-	-	-
-	-	-	-	-	-	3NC2663-OMK
-	-	-	3NC2263-OMK	-	-	-
-	-	-	3NC2280-OMK	-	-	-
-	-	-	3NC2200-OMK	-	-	-
-	-	-	-	-	■	■
3NC229.	3NC229.	3NC229.	3NC229.	3NC23	-	-
-	-	-	-	-	3NH5723	3NH5023
-	-	-	-	See page 7/63	-	-
-	-	-	-	See page 7/66	-	-

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SITOR semiconductor fuse links (cylindrical fuse design)

Operational class aR

Size 10 × 38 mm¹⁾



Size 14 × 51 mm

Standard



With striking pin







I_n	Switch-off I^2t value	Power loss P_v	U_n AC/DC 600/700 V ²⁾	U_n AC 600 V	U_n AC 660 V	U_n AC/DC 690/700 V ²⁾	690/250 V	U_n AC/DC 690/600 V ¹⁾
1 A	1.2 A ² s	5 W	–	–	3NC1401	–	–	–
2 A	10 A ² s	3 W	–	–	3NC1402	–	–	–
3 A	8 A ² s	1.2 W	3NC1003	–	–	–	–	–
	15 A ² s	2.5 W	–	–	3NC1403	–	–	–
4 A	25 A ² s	3 W	–	–	3NC1404	–	–	–
5 A	11 A ² s	1.5 W	–	–	–	3NC1405	–	–
6 A	11 A ² s	1.5 W	–	–	–	3NC1406	–	–
	20 A ² s	1.5 W	3NC1006	–	–	–	–	–
8 A	30 A ² s	2 W	3NC1008	–	–	–	–	–
10 A	22 A ² s	4 W	–	–	–	3NC1410	–	–
	32 A ² s	4 W	–	–	–	–	–	3NC1410-5
	60 A ² s	2.5 W	3NC1010	–	–	–	–	–
12 A	110 A ² s	3 W	3NC1012	–	–	–	–	–
15 A	63 A ² s	5.5 W	–	–	–	–	–	3NC1415-5
	70 A ² s	5.5 W	–	–	–	3NC1415	–	–
16 A	150 A ² s	3.5 W	3NC1016	–	–	–	–	–
20 A	100 A ² s	6 W	–	–	–	3NC1420	–	–
	200 A ² s	4.8 W	3NC1020	–	–	–	–	–
	220 A ² s	4.6 W	–	–	–	–	–	–
	234 A ² s	6 W	–	–	–	–	–	3NC1420-5
	240 A ² s	5 W	–	–	–	–	–	–
25 A	250 A ² s	6 W	3NC1025	–	–	–	–	–
	300 A ² s	5.6 W	–	–	–	–	–	–
	320 A ² s	7 W	–	–	–	3NC1425	–	–
	350 A ² s	6 W	–	–	–	–	–	–
	378 A ² s	7 W	–	–	–	–	–	3NC1425-5
30 A	400 A ² s	9 W	–	–	–	3NC1430	–	–
	466 A ² s	9 W	–	–	–	–	–	3NC1430-5
32 A	450 A ² s	7 W	–	–	–	–	–	–
	500 A ² s	7.5 W	–	3NC1032	–	–	–	–
	500 A ² s	8 W	–	–	–	–	–	–
40 A	600 A ² s	7.6 W	–	–	–	3NC1432	–	3NC1432-5
	700 A ² s	8.5 W	–	–	–	–	–	–
	750 A ² s	8 W	–	–	–	3NC1440	–	3NC1440-5
50 A	800 A ² s	9 W	–	–	–	–	–	–
	1350 A ² s	9.5 W	–	–	–	–	–	–
	1500 A ² s	9.5 W	–	–	–	–	–	–
63 A	1800 A ² s	9 W	–	–	–	3NC1450	–	3NC1450-5
	26000 A ² s	11.6 W	–	–	–	–	–	–
	2100 A ² s	16.7 W	–	–	–	–	3NC1463-0MK	–
	2600 A ² s	11 W	–	–	–	–	–	–
80 A	3000 A ² s	11 W	–	–	–	–	–	–
	3500 A ² s	22.5 W	–	–	–	–	–	–
	5500 A ² s	13.5 W	–	–	–	–	–	–
100 A	6000 A ² s	13.5 W	–	–	–	–	–	–
	5400 A ² s	31.5 W	–	–	–	–	–	–
	8000 A ² s	16 W	–	–	–	–	–	–
125 A	8500 A ² s	16 W	–	–	–	–	–	–
	11800 A ² s	39 W	–	–	–	–	–	–
	29000 A ² s	35.3 W	–	–	–	–	–	–

Further information

Screw fixing	–	–	–	–	–	–	–
Installation in SITOR fuse holders	3NC109.	3NC109.	3NC149	3NC149	3NC149.-5	3NC149.-5	
Installation in SITOR fuse bases	–	–	–	–	–	–	
Further currents, operational class gS	–	–	–	–	–	–	
Further currents, operational class aR	–	–	–	–	–	–	

¹⁾ Observe DC voltage acc. to UL, time constant and minimum breaking current MBC

²⁾ CCC approval

Size 22 × 58 mm				Size 22 × 127 mm		Size 26 × 103 mm	
Standard		With striking pin				With M8 bolt-on links	
							
U_n AC/DC 690/700 V ²⁾	690/250 V	U_n AC/DC 600/500 V ¹⁾	690/500 V ¹⁾	U_n AC/DC 1500/1000 V	U_n AC/DC 690/440 V		
-	-	-	-	-	-		
-	-	-	-	-	-		
-	-	-	-	-	-		
-	-	-	-	-	-		
-	-	-	-	-	-		
-	-	-	-	-	-		
-	-	-	-	-	-		
-	-	-	-	-	-		
-	-	-	-	-	-		
-	-	-	-	-	-		
-	-	-	-	-	-		
-	-	-	-	-	-		
-	-	-	-	-	-		
-	-	-	-	-	-		
-	-	-	-	-	-		
3NC2220	-	-	-	-	-		
-	-	-	3NC2220-5	-	-		
3NC2225	-	-	-	-	-		
-	-	-	3NC2225-5	-	-		
-	-	-	-	-	-		
3NC2232	-	-	-	-	-		
-	-	-	3NC2232-5	-	-		
3NC2240	-	-	-	-	-		
-	-	-	3NC2240-5	-	-		
3NC2250	-	-	-	-	-		
-	-	-	3NC2250-5	-	-		
-	-	-	-	3NC2350-0MK	-		
3NC2263	-	-	-	-	-		
-	-	-	3NC2263-5	-	-		
3NC2280	-	-	-	-	3NC2680-0MK		
-	-	-	3NC2280-5	-	-		
3NC2200	-	-	-	-	3NC2600-0MK		
-	-	3NC2200-5	-	-	-		
-	-	-	-	-	3NC2611-0MK		
-	3NC2211-0MK	-	-	-	-		
-	-	-	-	-	-		
3NC229.	3NC229.	3NC229.-5	3NC229.-5	3NC23	-		
-	-	-	-	-	3NH5023		
-	-	-	-	See page 7/64	-		
-	-	-	-	See page 7/63	-		

Photovoltaic cylindrical fuse links

Operational class gPV

Size 10 × 38 mm



Size 10 × 85 mm

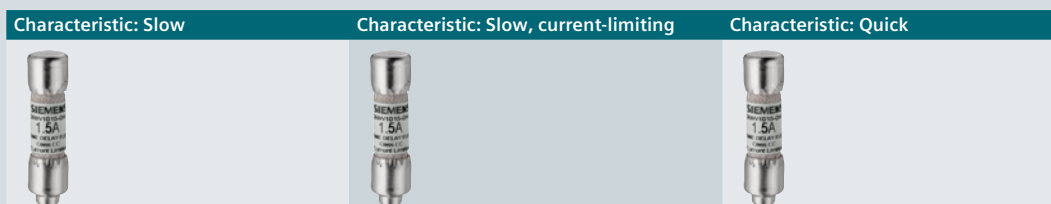


I_n DC	Power loss P_v	Power loss P_v at 70% ¹⁾	U_n DC		
			1000 V	1200 V	1500 V
2 A	1.4 W	0.6 W	3NW6002-4	–	–
4 A	1.6 W	0.7 W	3NW6004-4	–	–
	2.7 W	1.1 W	–	–	3NW6604-4
6 A	1.7 W	0.7 W	3NW6001-4	–	–
	3.0 W	1.2 W	–	–	3NW6601-4
8 A	1.9 W	0.8 W	3NW6008-4	–	–
	3.6 W	1.5 W	–	–	3NW6608-4
10 A	2.3 W	1.0 W	3NW6003-4	–	–
	3.7 W	1.6 W	–	–	3NW6603-4
12 A	2.7 W	1.1 W	3NW6006-4	–	–
	3.3 W	1.4 W	–	–	3NW6606-4
16 A	3.2 W	1.3 W	3NW6005-4	–	–
	3.7 W	1.6 W	–	–	3NW6605-4
20 A	3.4 W	1.4 W	3NW6007-4	–	–
	4.0 W	1.7 W	–	3NW6607-4	–
Further information					
Installation in fuse holders			3NW70...-4	3NW76...-4	3NW76...-4

¹⁾ Tested in fuse holders 3NW7013-4 and 3NW7613-4.

Class CC fuse links

Acc. to UL



I_n	$I_n^{1)}$			
0.6 A	6/10 A	3NW1006-OHG	–	–
0.8 A	8/10 A	3NW1008-OHG	–	–
1 A	–	3NW1010-OHG	3NW3010-OHG	3NW2010-OHG
1.5 A	1 ½ A	3NW1015-OHG	–	–
2 A	–	3NW1020-OHG	3NW3020-OHG	3NW2020-OHG
2.5 A	–	3NW1025-OHG	–	–
3 A	–	3NW1030-OHG	3NW3030-OHG	3NW2030-OHG
4 A	–	3NW1040-OHG	3NW3040-OHG	3NW2040-OHG
5 A	–	3NW1050-OHG	3NW3050-OHG	3NW2050-OHG
6 A	–	3NW1060-OHG	3NW3060-OHG	3NW2060-OHG
7.5 A	–	3NW1075-OHG	–	–
8 A	–	3NW1080-OHG	3NW3080-OHG	3NW2080-OHG
10 A	–	3NW1100-OHG	3NW3100-OHG	3NW2100-OHG
12 A	–	–	3NW3120-OHG	3NW2120-OHG
15 A	–	3NW1150-OHG	3NW3150-OHG	3NW2150-OHG
20 A	–	3NW1200-OHG	3NW3200-OHG	3NW2200-OHG
25 A	–	3NW1250-OHG	3NW3250-OHG	3NW2250-OHG
30 A	–	3NW1300-OHG	3NW3300-OHG	3NW2300-OHG

Further information

Installation in fuse holders

3NW75.3-OHG, 3NW753.-1HG,
3NW7431-OHG

3NW75.3-OHG, 3NW753.-1HG,
3NW7431-OHG

3NW75.3-OHG, 3NW753.-1HG,
3NW7431-OHG

¹⁾ American English wording

Busbars

According to IEC, can be cut

Pin spacing 1 MW

Pin spacing in MW (1 MW = 18 mm)	Application	Length	Version	Conductor cross-section	Article No.
1-phase, angled 	For cylindrical fuse holders 8 × 32 mm and 10 × 38 mm For SITOR cylindrical fuse holders 10 × 38 mm	214 mm	With end caps	16 mm ²	5ST3700
		1016 mm	Without end caps	16 mm ²	5ST3701
2-phase 	For cylindrical fuse holders 8 × 32 mm and 10 × 38 mm For SITOR cylindrical fuse holders 10 × 38 mm	214 mm	With end caps	16 mm ²	5ST3704
		1016 mm	Without end caps	16 mm ²	5ST3705
3-phase 	For cylindrical fuse holders 8 × 32 mm and 10 × 38 mm For SITOR cylindrical fuse holders 10 × 38 mm	214 mm	With end caps	16 mm ²	5ST3708
		1016 mm	Without end caps	16 mm ²	5ST3710


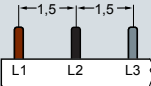
7

Fork spacing 1 MW

Fork spacing in MW (1 MW = 18 mm)	Application	Length	Version	Conductor cross-section	Article No.
1-phase 	For MINIZED D01 fuse switch disconnectors	1000 mm	Without end caps	16 mm ²	5ST2190
2-phase 	For MINIZED D01 fuse switch disconnectors	1000 mm	Without end caps	16 mm ²	5ST2191
3-phase 	For MINIZED D01 fuse switch disconnectors	1000 mm	Without end caps	16 mm ²	5ST2192

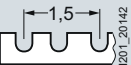
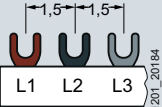
According to IEC, can be cut

Pin spacing 1.5 MW

Pin spacing in MW (1.5 MW = 27 mm)	Application	Length	Version	Conductor cross-section	Article No.
1-phase, angled					
	For 5SG71.3 MINIZED D02 switch disconnectors with fuses For NEOZED D01/D02 fuse bases made of molded plastic 5SG1301, 5SG1701, 5SG1302, 5SG1702 For NEOZED D01/D02 fuse bases made of ceramic with saddle terminals For cylindrical fuse holders 14 × 51 mm, 3NW7111 For SITOR cylindrical fuse holders 14 × 51 mm, 3NC1491	1016 mm	Without end caps	16 mm ²	5ST3703
3-phase					
	For 5SG71.3 MINIZED D02 switch disconnectors with fuses For NEOZED D01/D02 fuse bases made of molded plastic 5SG5301, 5SG5701, 5SG5302, 5SG5702 For NEOZED D01/D02 fuse bases made of ceramic with saddle terminals For cylindrical fuse holders 14 × 51 mm, 3NW7131 For SITOR cylindrical fuse holders 14 × 51 mm, 3NC1493	1016 mm	Without end caps	16 mm ²	5ST3714

7



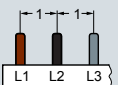
Fork spacing 1.5 MW

Fork spacing in MW (1.5 MW = 27 mm)	Application	Length	Version	Conductor cross-section	Article No.
1-phase					
	For NEOZED D01/D02 fuse bases made of ceramic with clamp-type terminal and screw head contacts	1000 mm	Without end caps, non-insulated	36 mm ²	5SH5322
3-phase					
	For NEOZED D01/D02 fuse bases made of ceramic with clamp-type terminals and screw head contacts	1000 mm	Without end caps	16 mm ²	5SH5320

Busbars



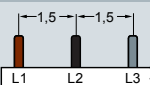
According to UL 508, can be cut

Pin spacing 1 MW

Pin spacing in MW (1 MW = 18 mm)	Application	Length	Version	Conductor cross-section	Article No.
1-phase 	For Class CC fuse holders 10 × 38 mm (3NC1091, 3NW7513-0HG)	1000 mm	Without end caps	18 mm ²	5ST3701-0HG
2-phase 	For Class CC fuse holders 10 × 38 mm (3NC1092, 3NW7523-0HG)	1000 mm	Without end caps	18 mm ²	5ST3705-0HG
3-phase 	For Class CC fuse holders 10 × 38 mm (3NC1093, 3NW7533-0HG)	1000 mm	Without end caps	18 mm ²	5ST3710-0HG

According to UL 508, can be cut







Pin spacing 1.5 MW

Pin spacing in MW (1 MW = 18 mm)	Application	Length	Version	Conductor cross-section	Article No.
1-phase 	For fuse holders 14 × 51 mm (3NC1491, 3NW7111)	1000 mm	Without end caps	18 mm ²	5ST3703-0HG
				25 mm ²	5ST3701-2HG
2-phase 	For fuse holders 14 × 51 mm (3NC1492, 3NW7121)	1000 mm	Without end caps	25 mm ²	5ST3705-2HG
3-phase 	For fuse holders 14 × 51 mm (3NC1493, 3NW7131)	1000 mm	Without end caps	18 mm ²	5ST3714-0HG
				25 mm ²	5ST3710-2HG

Busbars

Accessories

For busbars according to IEC

Terminals															
	<ul style="list-style-type: none"> For NEOZED D01/D02 fuse bases made of ceramic For DIAZED DII/DIII fuse bases made of ceramic 														
	<table border="1"> <thead> <tr> <th>Terminal version</th> <th>Conductor cross-section</th> <th>Article No.</th> </tr> </thead> <tbody> <tr> <td>Terminal version S</td> <td>2 ... 25 mm²</td> <td>5SH5327</td> </tr> <tr> <td>Terminal versions B and K</td> <td>6 ... 25 mm²</td> <td>5SH5328</td> </tr> </tbody> </table>	Terminal version	Conductor cross-section	Article No.	Terminal version S	2 ... 25 mm ²	5SH5327	Terminal versions B and K	6 ... 25 mm ²	5SH5328					
Terminal version	Conductor cross-section	Article No.													
Terminal version S	2 ... 25 mm ²	5SH5327													
Terminal versions B and K	6 ... 25 mm ²	5SH5328													
															
Touch protection															
	<ul style="list-style-type: none"> For free connections, yellow (RAL 1004) 5 × 1 pin 	Article No. 5ST3655													
End caps															
	<table border="1"> <thead> <tr> <th>Version</th> <th>For busbar type</th> <th>Article No.</th> </tr> </thead> <tbody> <tr> <td rowspan="2">For 1-phase busbars</td> <td>5ST2190</td> <td>5ST2196</td> </tr> <tr> <td>5ST37 and 5SH55</td> <td>5ST3748</td> </tr> <tr> <td rowspan="2">For 2-phase and 3-phase busbars</td> <td>5ST2191 and 5ST2192</td> <td>5ST2197</td> </tr> <tr> <td>5ST37 and 5SH5320</td> <td>5ST3750</td> </tr> </tbody> </table>	Version	For busbar type	Article No.	For 1-phase busbars	5ST2190	5ST2196	5ST37 and 5SH55	5ST3748	For 2-phase and 3-phase busbars	5ST2191 and 5ST2192	5ST2197	5ST37 and 5SH5320	5ST3750	
	Version	For busbar type	Article No.												
For 1-phase busbars	5ST2190	5ST2196													
	5ST37 and 5SH55	5ST3748													
For 2-phase and 3-phase busbars	5ST2191 and 5ST2192	5ST2197													
	5ST37 and 5SH5320	5ST3750													
															
															

For busbars according to UL 508

Terminals according to UL 508



Version	Infeed	Article No.
For busbars 35 mm ²	Device	5ST3770-0HG
For busbars 30 mm ²	Busbar	5ST3770-1HG

Busbar touch protection according to UL 508



- For free connections, yellow (RAL 1004) 5 × 1 pin

Article No.
5ST3655-0HG

End caps for 5ST37. ..HG



Version	Article No.
For 1-phase busbars	5ST3748-0HG
For 2 and 3-phase busbars	5ST3750-0HG

LV HRC signal detectors, electronic fuse monitoring

LV HRC signal detectors



- Only for SIEMENS LV 3NA3, 3NA7, 3ND HRC fuse links with non-insulated grip lugs
- Rated voltage of up to 690 V AC/600 V DC
- Contact: Microswitches 250 V AC, 6 A
- Connection: flat connector 2.3 mm

Fuse size	Article No.
000 ... 4	3NX1021

Signal detector links



- Rated voltage of up to 690 V AC/600 V DC

Fuse size	Response value	Application	Article No.
000 ... 4	>9 V/2.5 A	For standard applications	3NX1022
	>2 V/7 A	Only for meshed networks	3NX1023

Signal detector tops



- Only for SIEMENS LV 3NA3, 3NA7, 3ND HRC fuse links with non-insulated grip lugs
- Rated voltage of up to 690 V AC/600 V DC
- Contact: Microswitch 230 V AC, 5 A, 1 CO
- Connection: flat connector 2.3 mm

Fuse size	Article No.
000, 00, 1, 2	3NX1024

Electronic fuse monitor



- For all low-voltage fuse systems
- For monitoring all types and versions of melting fuses that cannot be equipped with a fault signal contact
- Can be used in asymmetric systems afflicted with harmonics and regenerative feedback motors
- Signal also for disconnected loads

U_e AC	I_n	U_c	Article No.
230 V	4 A	3 AC 380 ... 415 V	5TT3170

Electronic fuse monitoring for remote display of tripped fuses



- Remote display by auxiliary contact (1 CO)
- Local detection by integrated LED
- For all sizes
- For 3KF LV HRC and 3KF SITOR

U_e AC	I_n	U_c	Article No.
230 V	1.5 A	3 AC 690 V	3KF9010-1AA00



Appendix



Conditions of sale and delivery _____ A/2

Link directory _____ A/4

A

Conditions of sale and delivery

1. General Provisions

By using this catalog you can purchase products (hardware, software and services) described therein from Siemens Aktiengesellschaft subject to the following Terms and Conditions of Sale and Delivery (hereinafter referred to as „T&C“). Please note that the scope, the quality and the conditions for supplies and services, including software products, by any Siemens entity having a registered office outside Germany, shall be subject exclusively to the General Terms and Conditions of the respective Siemens entity. The following T&C apply exclusively for orders placed with Siemens Aktiengesellschaft, Germany.

1.1 For customers with a seat or registered office in European Union

For customers with a seat or registered office in European Union, the following terms and conditions apply subordinate to T&C:

- for products, which include specific terms and conditions in the description text, these specific terms and conditions shall apply and subordinate thereto,
- for stand-alone software products and software products forming a part of a product or project, the „General License Conditions for Software Products for Automation and Drives for Customers with a Seat or registered Office in Germany“¹⁾ and/or
- for consulting services the „Allgemeine Geschäftsbedingungen für Beratungsleistungen der Division DF – Deutschland“ (available only in German) and/or
- for other services, the „Supplementary Terms and Conditions for Services (‘BL’)¹⁾ and/or
- for other supplies the „General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry“¹⁾.

In case such supplies should contain Open Source Software, the conditions of which shall prevail over the „General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry“¹⁾, a notice will be contained in the scope of delivery in which the applicable conditions for Open Source Software are specified. This shall apply mutatis mutandis for notices referring to other third party software components.

1.2 For customers with a seat or registered office outside European Union

For customers with a seat or registered office outside European Union, the following terms and conditions apply subordinate to T&C:

- for products, which include specific terms and conditions in the description text, these specific terms and conditions shall apply and subordinate thereto,
- for consulting services the „Standard Terms and Conditions for Consulting Services of the Division DF for Customers with a Seat or Registered Office Outside of Germany“¹⁾ and/or
- for other services the „International Terms & Conditions for Services“¹⁾ supplemented by „Software Licensing Conditions“¹⁾ and/or
- for other supplies of hard- and software the „International Terms & Conditions for Products“¹⁾ supplemented by „Software Licensing Conditions“¹⁾

1.3 For customers with master or framework agreement

To the extent our supplies and/or services offered are covered by an existing master or framework agreement, the terms and conditions of that agreement shall apply instead of T&C.

2. Additional Terms and Conditions

The dimensions are in mm. In Germany, according to the German law on units in measuring technology, data in inches apply only to devices for export.

Illustrations are not binding.

Insofar as there are no remarks on the individual pages of this catalog – especially with regard to data, dimensions and weights given – these are subject to change without prior notice.

¹⁾ The text of the Terms and Conditions of Siemens AG can be downloaded at https://mall.industry.siemens.com/legal/ww/en/terms_of_trade_en.pdf

3. Export Regulations

We shall not be obligated to fulfill any agreement if such fulfillment is prevented by any impediments arising out of national or international foreign trade or customs requirements or any embargoes and/or other sanctions.

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Prior to any transfer of goods, works and services provided by us to a third party you shall in particular check and guarantee by appropriate measures that

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- the regulations of all applicable Sanctioned Party Lists of the European Union and the United States of America concerning the trading with entities, persons and organizations listed therein are considered.

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Link directory

Catalog LV 10

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LV 10 Low-Voltage Power Distribution and Electrical Installation Technology SENTRON • SIVACON • ALPHA

Protection, Switching, Measuring and
Monitoring Devices, Switchboards and
Distribution Systems

PDF (E86060-K8280-A101-B4-7600)



LV 14 Power Monitoring Made Simple SENTRON

PDF (E86060-K1814-A101-A8-7600)



LV 18 Air Circuit Breakers and Molded Case Circuit Breakers with UL Certification SENTRON

PDF (E86060-K8280-E347-A7-7600)



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PDF



IC 10 Industrial Controls SIRIUS

PDF (E86060-K1010-A101-B3-7600)



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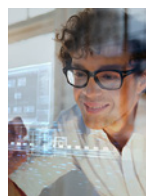
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Security information

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, systems, machines and networks.

In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Siemens' products and solutions constitute one element of such a concept.

Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the Internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place.

For additional information on industrial security measures that may be implemented, please visit <https://www.siemens.com/industrialsecurity>

Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats.

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