

Catalog
Extract
LV 10

Edition
04/2022

SENTRON • SIVACON • ALPHA

Low-Voltage Power Distribution and Electrical Installation Technology

Fuse Systems

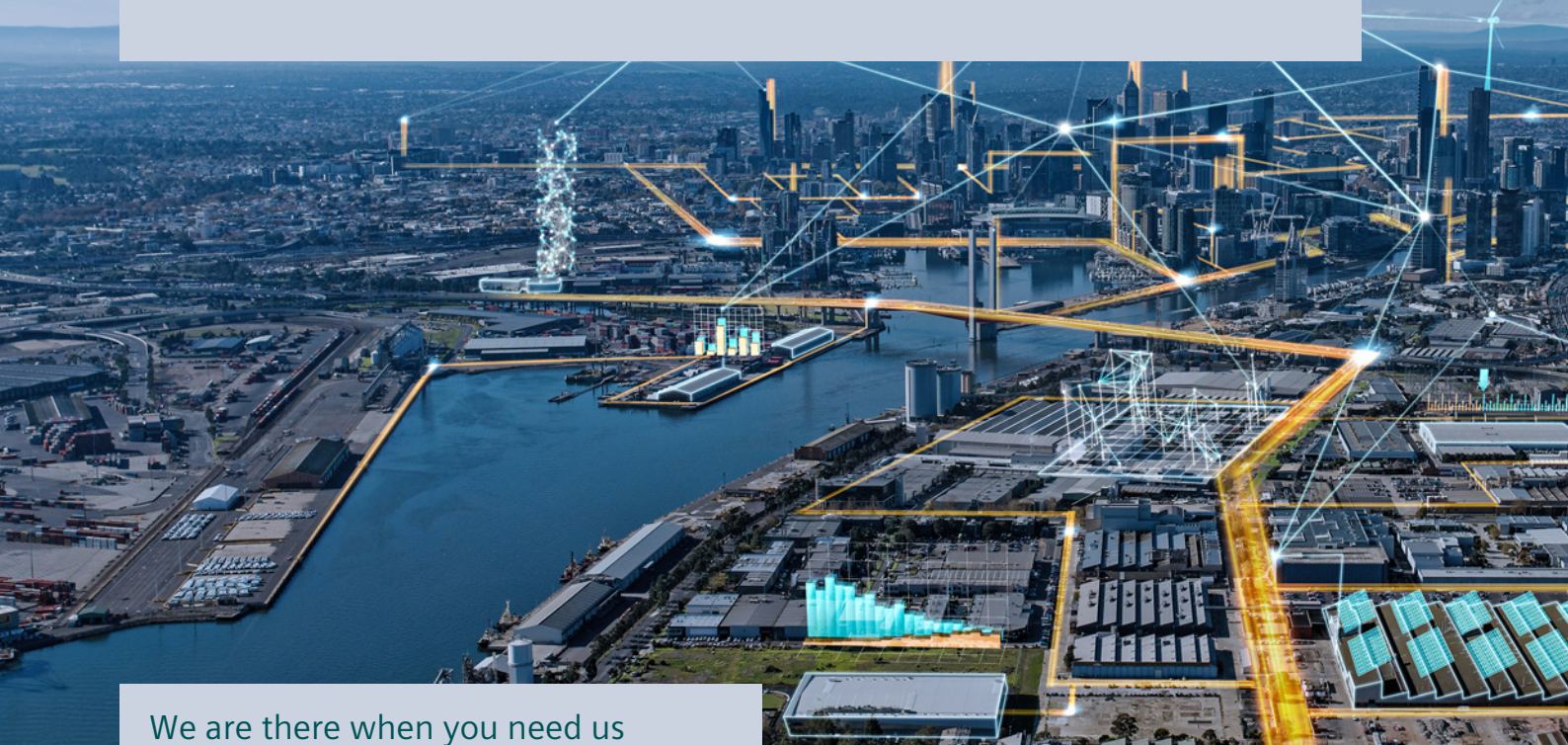
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In ensuring smooth operation of digital production environments and in the construction and operation of industrial or commercial buildings, the underlying power distribution and industrial controls are decisive:

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Catalog LV 10 · 04/2022

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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 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**)

Face-to-face 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

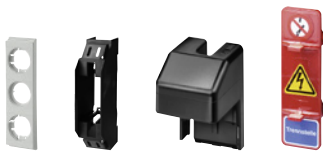


Class CC



Class J

Accessories for fuse holders and bases



Covers



Screw caps



Adapter sleeves

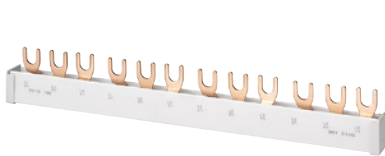


Isolating blades



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)Cylindrical
fuses

SILIZED



SILIZED

Photovoltaic
cumulative 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:

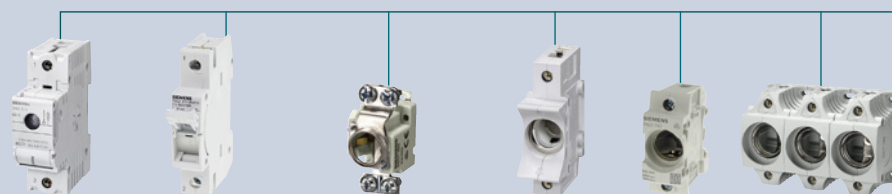
You will find a detailed range of accessories with the basic units.

Overview, see page 7/30

												
IEC	IEC	IEC	IEC	IEC	IEC/UL	IEC/UL	IEC	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	-	440...3000 V	250...1000 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 7/50	See page 7/52	See page 7/54	See page 7/71	See page 7/79 See page 7/78	See page 7/80						
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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
--	--	--	--------------------------	--	--	-----------------------------	--------------------------	--------------------------

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
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

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¹⁾ Extended rated voltage up to 1000 V

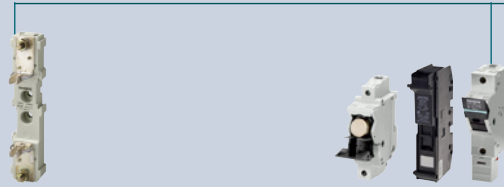
IEC



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	
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

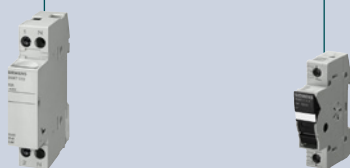


			LV HRC fuse bases					Fuse holders for SITOR semiconductor fuses (cylindrical fuse design)				
Basic data												
Size/for fuses of size			000/00	0	1	2	3	10 × 38 mm	14 × 51 mm	22 × 58 mm	22 × 127 mm	
Type ²⁾			3NH3030 3NH4030	3NH3120	3NH3220 3NH3230 3NH4230	3NH3320 3NH3330	3NH3420 3NH3430	3NC10	3NC14	3NC22	3NC23	
Standards			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	
Approvals			KEMA, UL file number E171267-IZLT2					UL 4248-1; UL File number E171267; CSA C22.2 No. 39-M				–
Certifications			–					UL, CE	UL, CE	UL, CE	–	
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 7/72				

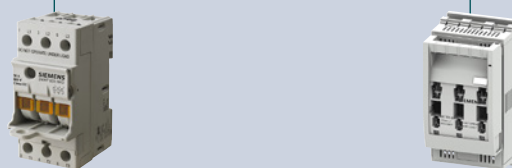
¹⁾ Extended rated voltage up to 1000 V

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

IEC/UL

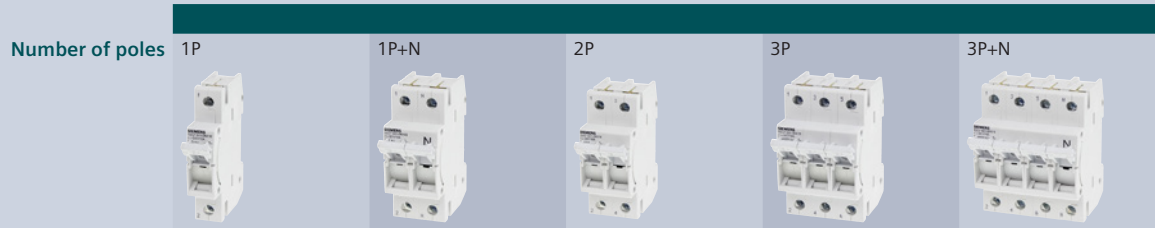


UL



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		(File number E469670, CCC) (types without signal detector)	(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	I_n	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	I_n	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	Article No.
For D01 fuse links in MINIZED switch disconnectors with fuses D02	5SH5527

Auxiliary switches (AS)



Version	Article No.
1 NO + 1 NC	5ST3010
2 NO	5ST3011
2 NC	5ST3012

Auxiliary switches (AS) with TEST button



Version	Article No.
1 NO + 1 NC	5ST3010-2
2 NO	5ST3011-2
2 NC	5ST3012-2

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



<ul style="list-style-type: none"> Wireless information about manual ON/OFF, temperature, operating cycles, operating hours, warnings 	Article No.
	5ST3062-0MC




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 				
U_e AC	I_n	U_c	Article No.	
230 V	4 A	3 AC 380 ... 415 V	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	I_n IEC	UL 508	U_n			Standard	Mounting width		
			IEC AC	IEC DC	UL 508		Without LED signal detector	With LED signal detector	
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 onwards](#)

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	I_n						
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	5SH5402
		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

1P



5SG1553

3P



5SG5553

With saddle terminal, on both sides

1P



5SG1653

3P



5SG5653

With screw head contact at incoming feeder,
clamp-type terminal at outgoing feeder

1P



5SG1693

3P



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

230 V

 I_n

4 A




 U_c

3 AC 380 ... 415 V

Article No.

5TT3170



DIAZED fuse bases



Size	I_n	U_n AC/DC	Fuse bases made of molded plastic With box terminal		Fuse bases made of ceramic With clamp-type terminal, on both sides
			Number of poles	1P	3P
DII	25 A	500 V/500 V			
DIII	63 A	500 V/500 V			
		750 V/750 V			
			5SF1060	5SF5068	5SF1005
			5SF1260 ¹⁾	5SF5268 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 V/500 V	5SH1112
			DII	500 V/500 V	5SH1221
			DIII	500 V/500 V	5SH1231
	Ceramic	Without inspection hole	DII	500 V/500 V	5SH112
			DIII	500 V/500 V	5SH113
		With inspection hole, sealable	DII	500 V/500 V	5SH122
			DIII	500 V/500 V	5SH123
		Extended version	DIII	690 V/600 V	5SH1170
		With fine thread	DIII	750 V/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
		35 A	5SH317
		50 A	5SH318
		63 A	5SH320

With clamp-type terminal
at incoming feeder, saddle
terminal at outgoing feeder

1P



With screw head contact,
on both sides

1P



-

5SF1205¹⁾

-

-

-

5SF4230

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

DII

Material

Molded plastic

Article No.

5SH3401

DIII

Molded plastic

5SH3411

DIAZED caps



Fuse size

DII

Material

Molded plastic

Article No.

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

230 V

I_n

4 A

U_c

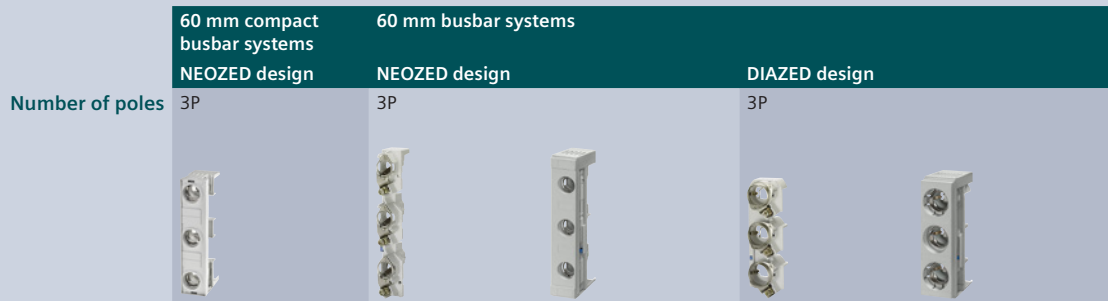
3 AC 380 ... 415 V

Article No.

5TT3170

Bus-mounting bases

For 8US busbar systems



Size	I_n	Mounting width	U_n AC/DC	60 mm compact busbar systems		60 mm busbar systems		
				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 V/500 V	–	–	–	5SF6015	5SF6020
DIII	63 A	–	500 V/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](#)

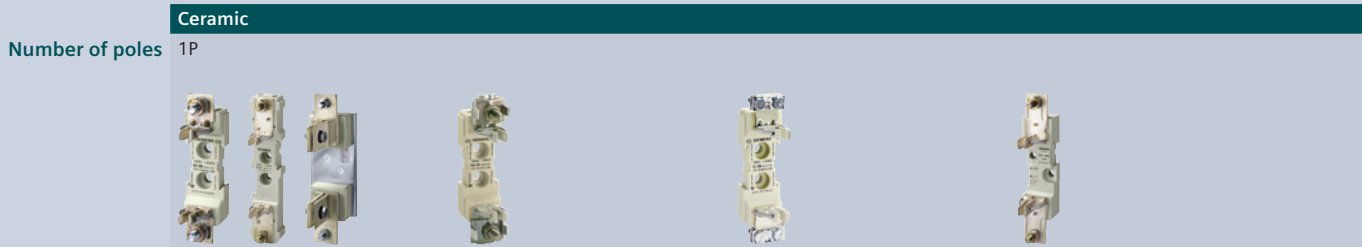
Accessories

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

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

LV HRC fuse bases



Size	I_n	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	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

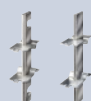
Size	Article No.
000/00	3NX1003
1, 2, 3	3NX1004

Fuse pullers for LV HRC fuse links



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

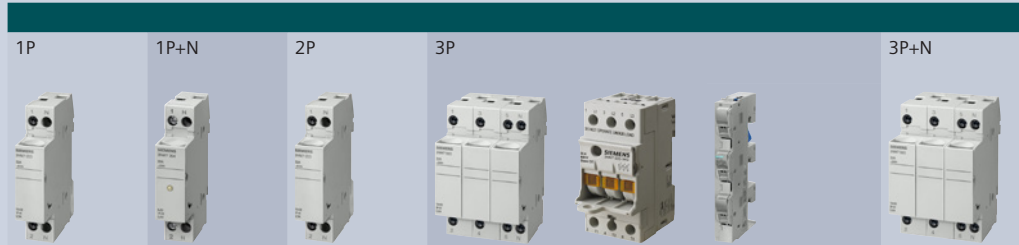
Isolating blades for LV HRC fuse bases and fuse switch disconnectors



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



For fuses of size	I_n	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



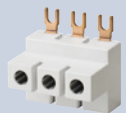
In/AC-12	U_n	Contacts	Article No.
5 A	Max. 250 V	1 NO + 1 NC	3NW7903-1

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

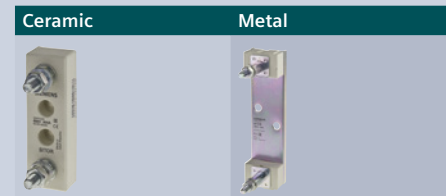


Version	Article No.
For conductor cross-sections 2.5 ... 35 mm ²	5ST2600

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

Fuse holders and bases for SITOR semiconductor fuses

For SITOR fuses with bolt-on links or blade contacts



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

Note:

Please comply with the maximum permissible current-carrying capacity.

Accessories

Fuse tongs



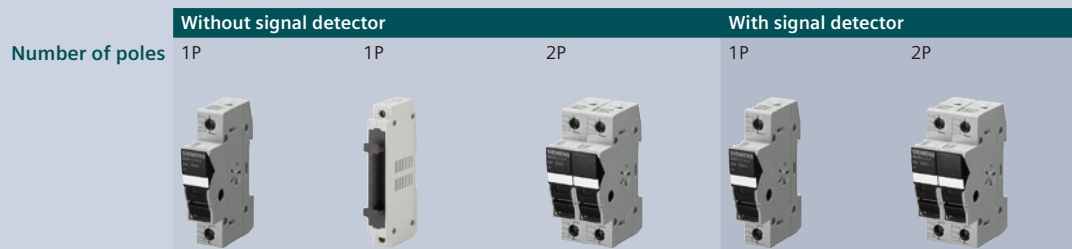
For fuses of size

10 × 38 mm
14 × 51 mm
22 × 58 mm

Article No.

3NC1000

Photovoltaic cylindrical fuse holders



For fuses of size	I_n	U_n DC					
10 × 38 mm	30 A	1000 V	3NW7013-4	–	3NW7023-4	3NW7014-4	3NW7024-4
10 × 85 mm	32 A	1500 V	–	3NW7613-4	–	–	–

Photovoltaic cumulative fuse bases



Size	I_n	U_n 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 V/1500 V	–	3NH7460-4	–
1XL	250 A	1500 V	–	3NH7261-4	–
2XL	400 A	1500 V	–	3NH7361-4	–

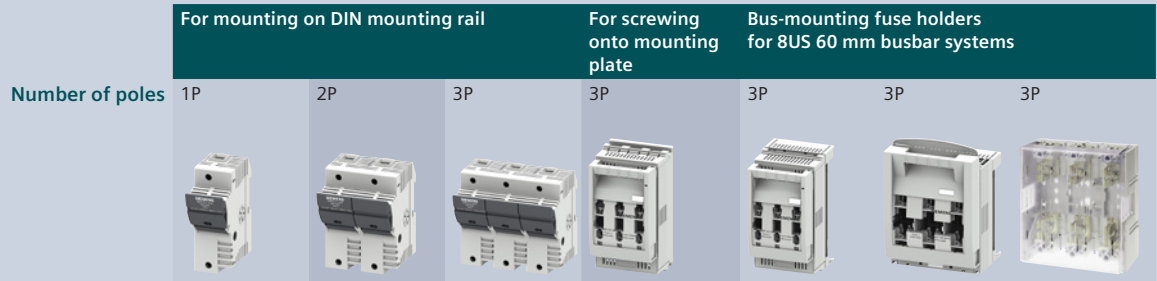
Accessories

Terminal covers for PV fuse bases with swiveling mechanism



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







Class J fuse holders



For fuses of size	I_n	U_n							
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

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Class CC fuse holders

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

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

Accessories

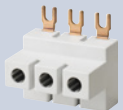
Auxiliary switches for cylindrical fuse holders, compact

	$I_n/AC-12$	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.
	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 Class CC fuse holders, compact

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

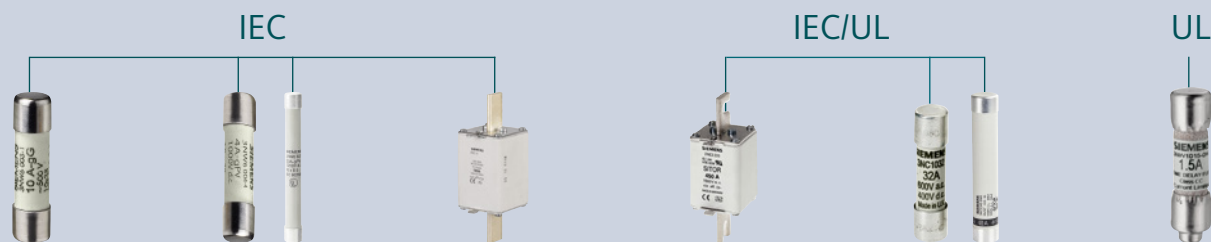
Quick selection guide of fuse links

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 DIN 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	VDE	VDE	–	CSA 22.2, VDE	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	Cylindrical	LV HRC	LV HRC	Cylindrical	Cylindrical
8 × 32 mm, 10 × 38 mm, 14 × 51 mm, 22 × 58 mm	10 × 38 mm, 10 × 85 mm	1, 1L, 2L, 3L, 1XL, 2XL	000, 00, 1, 2, 3	10 × 38 mm, 14 × 51 mm, 22 × 58 mm	–
gG, aM	gPV	gPV	gS, gR, aR	gS, gR, aR	–
0,5 ... 100	2 ... 20	63 ... 630	6 ... 2400	1 ... 125	0.6 ... 30
IEC 60269-1/-2 NF C 60-200 NF C 63-210/-211 NBN C 63269-2 IEC 32-4/-12	IEC 60269-6	IEC 60269-6	IEC 60269-4	IEC 60269-2	–
UL 4248-1; CSA	–	–	UL 4248-1 UL 4248-13	UL 4248-1 UL 4248-13	UL 4248-1 CSA C22.2
400 ... 690 400 ... 600 (UL/CSA)	–	–	500 ... 2500	690 ... 1500 600 ... 1500 (UL/CSA)	600
20 ... 120	–	–	100 ... 150	100	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



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

DIAZED fuse links

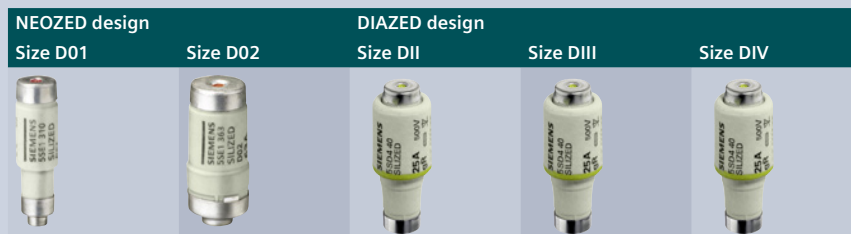
Operational class	Size DII	Size DIII ¹⁾	Size DIV	Size TNDz
	E27	E33	R 1¼"	E16
	gG	gG	quick	slow
				

I_n	Identification color	U_n AC/DC				
2 A	Pink	500 V/500 V	5SB211	–	–	5SA211
		690 V/600 V	–	5SD8002	–	–
		750 V/750 V	–	–	5SD601	–
4 A	Brown	500 V/500 V	5SB221	–	–	5SA221
		690 V/600 V	–	5SD8004	–	–
		750 V/750 V	–	–	5SD602	–
6 A	Green	500 V/500 V	5SB231	–	–	5SA231
		690 V/600 V	–	5SD8006	–	–
		750 V/750 V	–	–	5SD603	–
10 A	Red	500 V/500 V	5SB251	–	–	5SA251
		690 V/600 V	–	5SD8010	–	–
		750 V/750 V	–	–	5SD604	–
16 A	Gray	500 V/440 V	5SB2611	–	–	5SA2611
		690 V/600 V	–	5SD8016	–	–
		750 V/750 V	–	–	5SD605	–
20 A	Blue	500 V/440 V	5SB2711	–	–	5SA2711
		690 V/600 V	–	5SD8020	–	–
		750 V/750 V	–	–	5SD606	–
25 A	Yellow	500 V/440 V	5SB2811	–	–	5SA2811
		690 V/600 V	–	5SD8025	–	–
		750 V/750 V	–	–	5SD607	–
32 A	Violet	500 V/440 V	–	5SB4011	–	–
35 A	Black	500 V/440 V	–	5SB4111	–	–
		690 V/600 V	–	5SD8035	–	–
		750 V/750 V	–	–	5SD608	–
50 A	White	500 V/440 V	–	5SB4211	–	–
		690 V/600 V	–	5SD8050	–	–
		750 V/750 V	–	–	5SD610	–
63 A	Copper	500 V/440 V	–	5SB4311	–	–
		690 V/600 V	–	5SD8063	–	–
		750 V/750 V	–	–	5SD611	–
80 A	Silver	500 V/400 V	–	–	–	5SC211
100 A	Red	500 V/400 V	–	–	–	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	U_n AC/DC					
10 A	73 A ² s	6,9 W	400 V/250 V	5SE1310	–	–	–	–
16 A	60 A ² s	12,1 W	500 V/500 V	–	–	5SD420	–	–
	120 A ² s	6,2 W	400 V/250 V	5SE1316	–	–	–	–
20 A	139 A ² s	12,3 W	500 V/500 V	–	–	5SD430	–	–
	190 A ² s	8,1 W	400 V/250 V	–	5SE1320	–	–	–
25 A	205 A ² s	12,5 W	500 V/500 V	–	–	5SD440	–	–
	215 A ² s	8,2 W	400 V/250 V	–	5SE1325	–	–	–
30 A	310 A ² s	13,5 W	500 V/500 V	–	–	5SD480	–	–
35 A	470 A ² s	16,7 W	400 V/250 V	–	5SE1335	–	–	–
	539 A ² s	14,8 W	500 V/500 V	–	–	–	5SD450	–
50 A	1250 A ² s	18,5 W	500 V/500 V	–	–	–	5SD460	–
	1960 A ² s	12,0 W	400 V/250 V	–	5SE1350	–	–	–
63 A	1890 A ² s	28 W	500 V/500 V	–	–	–	5SD470	–
	4230 A ² s	15,5 W	400 V/250 V	–	5SE1363	–	–	–
80 A	4200 A ² s	34,3 W	500 V/500 V	–	–	–	–	5SD510
100 A	8450 A ² s	41,5 W	500 V/500 V	–	–	–	–	5SD520

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LV HRC fuse links

Operational class gG, with combination alarm



I_n	U_n AC/DC	Size 000 21 mm	Size 00 30 mm	Size 1 30 mm
Insulated grip lugs				
2 A	500 V/250 V	3NA6802	–	–
	690 V ¹⁾ /250 V	3NA6802-6	–	–
4 A	500 V/250 V	3NA6804	–	–
	690 V ¹⁾ /250 V	3NA6804-6	–	–
6 A	500 V/250 V	3NA6801	–	–
	690 V ¹⁾ /250 V	3NA6801-6	–	–
10 A	400 V/–	3NA6803-4	–	–
	500 V/250 V	3NA6803	–	–
	690 V ¹⁾ /250 V	3NA6803-6	–	–
16 A	400 V/–	3NA6805-4	–	–
	500 V/250 V	3NA6805	–	–
	690 V ¹⁾ /250 V	3NA6805-6	–	–
	500 V/440 V	–	–	3NA6105
20 A	400 V/–	3NA6807-4	–	–
	500 V/250 V	3NA6807	–	–
	690 V ¹⁾ /250 V	3NA6807-6	–	–
	500 V/440 V	–	–	3NA6107
25 A	400 V/–	3NA6810-4	–	–
	500 V/250 V	3NA6810	–	–
	690 V ¹⁾ /250 V	3NA6810-6	–	–
	500 V/440 V	–	–	3NA6110
32 A	400 V/–	3NA6812-4	–	3NA6114-4
	500 V/250 V	3NA6812	–	–
	690 V ¹⁾ /250 V	3NA6812-6	–	–
35 A	400 V/–	3NA6814-4	–	–
	500 V/250 V	3NA6814	–	–
	690 V ¹⁾ /250 V	3NA6814-6	–	–
	500 V/440 V	–	–	3NA6114
40 A	400 V/–	3NA6817-4	–	3NA6117-4
	500 V/250 V	3NA6817	–	–
	690 V ¹⁾ /250 V	3NA6817-6KJ	3NA6817-6	–
	500 V/440 V	–	–	3NA6117
50 A	400 V/–	3NA6820-4	–	3NA6120-4
	500 V/250 V	3NA6820	–	–
	690 V ¹⁾ /250 V	3NA6820-6KJ	3NA6820-6	–
	500 V/440 V	–	–	3NA6120
	690 V ¹⁾ /440 V	–	–	3NA6120-6

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

LV HRC fuse links

Operational class gG, with combination alarm



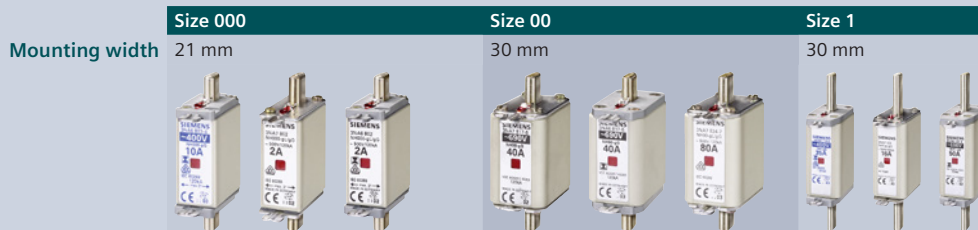
I_n	U_n AC/DC	Size 000	Size 00	Size 1
Insulated grip lugs				
63 A	400 V/-	3NA6822-4	-	3NA6122-4
	500 V/250 V	3NA6822	-	-
	690 V ¹⁾ /250 V	-	3NA6822-6	-
	500 V/440 V	-	-	3NA6122
	690 V ¹⁾ /440 V	-	-	3NA6122-6
80 A	400 V/-	3NA6824-4	3NA6824-4KK	3NA6124-4
	500 V/250 V	3NA6824	3NA6824-7	-
	690 V ¹⁾ /250 V	-	3NA6824-6	-
	500 V/440 V	-	-	3NA6124
	690 V ¹⁾ /440 V	-	-	3NA6124-6
100 A	400 V/-	3NA6830-4	3NA6830-4KK	3NA6130-4
	500 V/250 V	3NA6830	3NA6830-7	-
	690 V ¹⁾ /250 V	-	3NA6830-6	-
	500 V/440 V	-	-	3NA6130
	690 V ¹⁾ /440 V	-	-	3NA6130-6
125 A	400 V/-	-	3NA6832-4	-
	500 V/250 V	-	3NA6832	-
	500 V/440 V	-	-	3NA6132
	690 V ¹⁾ /440 V	-	-	3NA6132-6
	400 V/-	-	3NA6836-4	3NA6136-4
160 A	500 V/250 V	-	3NA6836	-
	500 V/440 V	-	-	3NA6136
	690 V ¹⁾ /440 V	-	-	3NA6136-6
	400 V/-	-	-	-
	500 V/440 V	-	-	-
200 A	690 V ¹⁾ /440 V	-	-	-
	400 V/-	-	-	-
	500 V/440 V	-	-	-
224 A	690 V ¹⁾ /440 V	-	-	-
	400 V/-	-	-	-
	500 V/440 V	-	-	-
250 A	690 V ¹⁾ /440 V	-	-	-
	400 V/-	-	-	-
	500 V/440 V	-	-	-
300 A	690 V ¹⁾ /440 V	-	-	-
	400 V/-	-	-	-
	500 V/440 V	-	-	-
315 A	690 V ¹⁾ /440 V	-	-	-
	400 V/-	-	-	-
	500 V/440 V	-	-	-
355 A	690 V ¹⁾ /440 V	-	-	-
	400 V/-	-	-	-
400 A	500 V/440 V	-	-	-
	400 V/-	-	-	-

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
-	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	3NA6240-4	-
3NA6140	3NA6240	-
3NA6140-6	3NA6240-6	-
3NA6142-4	3NA6242-4	-
3NA6142	3NA6242	-
-	-	3NA6242-6
3NA6144-4	3NA6244-4	-
3NA6144	3NA6244	-
-	-	3NA6244-6
-	-	3NA6250-4
-	-	3NA6250
-	-	3NA6250-6
-	-	3NA6252-4
-	-	3NA6252
-	-	3NA6252-6
-	-	3NA6254-4
-	-	3NA6254
-	-	3NA6260-4
-	-	-

LV HRC fuse links

Operational class gG, with combination alarm

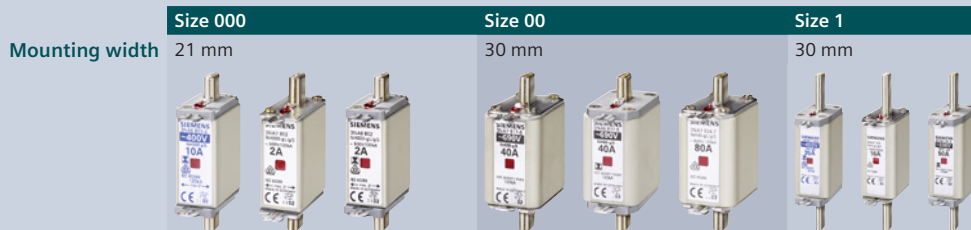


I_n	U_n AC/DC	Size 000 Mounting width 21 mm	Size 00 Mounting width 30 mm	Size 1 Mounting width 30 mm
Non-insulated grip lugs				
2 A	500 V/250 V	3NA7802	–	–
	690 V ¹⁾ /250 V	3NA7802-6	–	–
4 A	500 V/250 V	3NA7804	–	–
	690 V ¹⁾ /250 V	3NA7804-6	–	–
6 A	500 V/250 V	3NA7801	–	–
	690 V ¹⁾ /250 V	3NA7801-6	–	–
10 A	500 V/250 V	3NA7803	–	–
	690 V ¹⁾ /250 V	3NA7803-6	–	–
16 A	500 V/250 V	3NA7805	–	–
	690 V ¹⁾ /250 V	3NA7805-6	–	–
	500 V/440 V	–	–	3NA7105
20 A	500 V/250 V	3NA7807	–	–
	690 V ¹⁾ /250 V	3NA7807-6	–	–
	500 V/440 V	–	–	3NA7107
25 A	500 V/250 V	3NA7810	–	–
	690 V ¹⁾ /250 V	3NA7810-6	–	–
	500 V/440 V	–	–	3NA7110
32 A	500 V/250 V	3NA7812	–	–
	690 V ¹⁾ /250 V	3NA7812-6	–	–
35 A	500 V/250 V	3NA7814	–	–
	690 V ¹⁾ /250 V	3NA7814-6	–	–
	500 V/440 V	–	–	3NA7114
40 A	500 V/250 V	3NA7817	–	–
	690 V ¹⁾ /250 V	3NA7817-6KJ	3NA7817-6	–
	500 V/440 V	–	–	3NA7117
50 A	500 V/250 V	3NA7820	–	–
	690 V ¹⁾ /250 V	3NA7820-6KJ	3NA7820-6	–
	500 V/440 V	–	–	3NA7120
63 A	690 V ¹⁾ /440 V	–	–	3NA7120-6
	500 V/250 V	3NA7822	–	–
	690 V ¹⁾ /250 V	–	3NA7822-6	–
80 A	500 V/440 V	–	–	3NA7122
	690 V ¹⁾ /440 V	–	–	3NA7122-6
	500 V/250 V	3NA7824	3NA7824-7	–
	690 V ¹⁾ /250 V	–	3NA7824-6	–
100 A	500 V/440 V	–	–	3NA7124
	690 V ¹⁾ /440 V	–	–	3NA7124-6
	500 V/250 V	3NA7830	3NA7830-7	–
	690 V ¹⁾ /250 V	–	3NA7830-6	–
125 A	500 V/440 V	–	–	3NA7130
	690 V ¹⁾ /440 V	–	–	3NA7130-6
	500 V/250 V	–	3NA7832	–
	500 V/440 V	–	–	3NA7132
	690 V ¹⁾ /440 V	–	–	3NA7132-6

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

LV HRC fuse links

Operational class gG, with combination alarm



I_n	U_n AC/DC	Size 000	Size 00	Size 1
Non-insulated grip lugs				
160 A	500 V/250 V	–	3NA7836	–
	500 V/440 V	–	–	3NA7136
	690 V ¹⁾ /440 V	–	–	3NA7136-6
200 A	500 V/440 V	–	–	–
	690 V ¹⁾ /440 V	–	–	–
224 A	500 V/440 V	–	–	–
	690 V ¹⁾ /440 V	–	–	–
250 A	500 V/440 V	–	–	–
	690 V ¹⁾ /440 V	–	–	–
300 A	500 V/440 V	–	–	–
	690 V ¹⁾ /440 V	–	–	–
315 A	500 V/440 V	–	–	–
	690 V ¹⁾ /440 V	–	–	–
355 A	–	–	–	–
400 A	500 V/440 V	–	–	–

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
-	-	-
-	3NA7236	-
-	3NA7236-6	-
3NA7140	3NA7240	-
3NA7140-6	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



I_n	U_n AC/DC	Size 000	Size 00	Size 0	Size 1	Size 1
Non-insulated grip lugs						
2 A	500 V/250 V	3NA3802	–	–	–	–
	690 V ¹⁾ /250 V	3NA3802-6	–	–	–	–
4 A	500 V/250 V	3NA3804	–	–	–	–
	690 V ¹⁾ /250 V	3NA3804-6	–	–	–	–
6 A	500 V/250 V	3NA3801	–	–	–	–
	690 V ¹⁾ /250 V	3NA3801-6	–	–	–	–
	500 V/440 V	–	–	3NA3001	–	–
10 A	500 V/250 V	3NA3803	–	–	–	–
	690 V ¹⁾ /250 V	3NA3803-6	–	–	–	–
	500 V/440 V	–	–	3NA3003	–	–
16 A	500 V/250 V	3NA3805	–	–	–	–
	690 V ¹⁾ /250 V	3NA3805-6	–	–	–	–
	500 V/440 V	–	–	3NA3005	3NA3105	–
20 A	500 V/250 V	3NA3807	–	–	–	–
	690 V ¹⁾ /250 V	3NA3807-6	–	–	–	–
	500 V/440 V	–	–	3NA3007	3NA3107	–
25 A	500 V/250 V	3NA3810	–	–	–	–
	690 V ¹⁾ /250 V	3NA3810-6	–	–	–	–
	500 V/440 V	–	–	3NA3010	3NA3110	–
32 A	500 V/250 V	3NA3812	–	–	–	–
	690 V ¹⁾ /250 V	3NA3812-6	–	–	–	–
	500 V/440 V	–	–	3NA3012	–	–
35 A	500 V/250 V	3NA3814	3NA3814-7	–	–	–
	690 V ¹⁾ /250 V	–	–	–	–	–
	500 V/440 V	–	–	3NA3014	3NA3114	–
40 A	500 V/250 V	3NA3817	–	–	–	–
	690 V ¹⁾ /250 V	3NA3817-6KJ	3NA3817-6	–	–	–
	500 V/440 V	–	–	3NA3017	3NA3117	–
50 A	500 V/250 V	3NA3820	3NA3820-7	–	–	–
	690 V ¹⁾ /250 V	3NA3820-6KJ	3NA3820-6	–	–	–
	500 V/440 V	–	–	3NA3020	3NA3120	–
	690 V ¹⁾ /440 V	–	–	–	3NA3120-6	–
63 A	500 V/250 V	3NA3822	3NA3822-7	–	–	–
	690 V ¹⁾ /250 V	–	3NA3822-6	–	–	–
	500 V/440 V	–	–	3NA3022	3NA3122	–
	690 V ¹⁾ /440 V	–	–	–	3NA3122-6	–
80 A	500 V/250 V	3NA3824	3NA3824-7	–	–	–
	690 V ¹⁾ /250 V	–	3NA3824-6	–	–	–
	500 V/440 V	–	–	3NA3024	3NA3124	–
	690 V ¹⁾ /440 V	–	–	–	3NA3124-6	–
100 A	500 V/250 V	3NA3830	3NA3830-7	–	–	–
	690 V ¹⁾ /250 V	–	3NA3830-6	–	–	–
	500 V/440 V	–	–	3NA3030	3NA3130	–
	690 V ¹⁾ /440 V	–	–	–	–	–

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

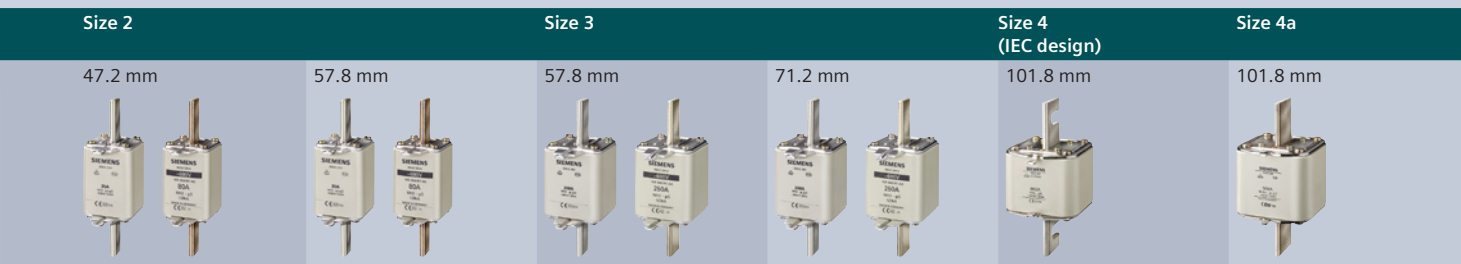
LV HRC fuse links

Operational class gG, with front indicator



I_n	U_n AC/DC					
Non-insulated grip lugs						
125 A	400 V/250 V	3NA3832-8	–	–	–	–
	500 V/250 V	–	3NA3832	–	–	–
	500 V/440 V	–	–	3NA3032	3NA3132	–
	690 V ¹⁾ /440 V	–	–	–	3NA3132-6	–
160 A	400 V/250 V	3NA3836-8	–	–	–	–
	500 V/250 V	–	3NA3836	–	–	–
	500 V/440 V	–	–	3NA3036	3NA3136	–
	690 V ¹⁾ /440 V	–	–	–	3NA3136-6	–
200 A	500 V/440 V	–	–	–	–	3NA3140
	690 V ¹⁾ /440 V	–	–	–	–	3NA3140-6
224 A	500 V/440 V	–	–	–	–	3NA3142
	690 V ¹⁾ /440 V	–	–	–	–	–
250 A	500 V/440 V	–	–	–	–	3NA3144
	690 V ¹⁾ /440 V	–	–	–	–	3NA3144-6
300 A	500 V/440 V	–	–	–	–	–
	690 V ¹⁾ /440 V	–	–	–	–	–
315 A	500 V/440 V	–	–	–	–	–
	690 V ¹⁾ /440 V	–	–	–	–	–
355 A	500 V/440 V	–	–	–	–	–
	690 V ¹⁾ /440 V	–	–	–	–	–
400 A	500 V/440 V	–	–	–	–	–
	690 V ¹⁾ /440 V	–	–	–	–	–
425 A	500 V/440 V	–	–	–	–	–
	690 V ¹⁾ /440 V	–	–	–	–	–
500 A	500 V/440 V	–	–	–	–	–
	690 V ¹⁾ /440 V	–	–	–	–	–
630 A	500 V/440 V	–	–	–	–	–
800 A	500 V/440 V	–	–	–	–	–
1000 A	500 V/440 V	–	–	–	–	–
1250 A	500 V/440 V	–	–	–	–	–

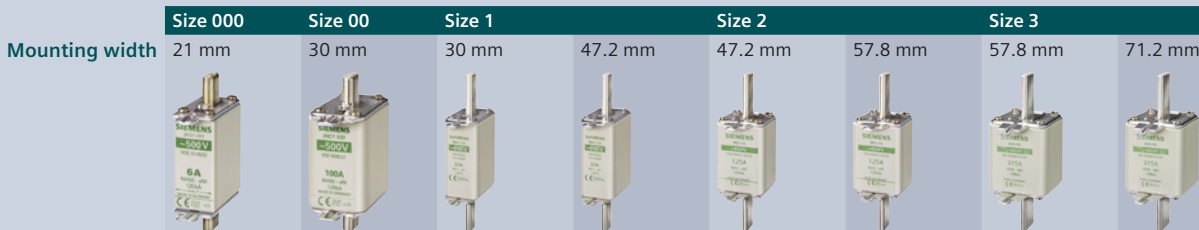
¹⁾ Manufacturer's confirmation for 690 V +10% rated voltage available on request.



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
–	–	–	–
–	–	–	–
3NA3232	–	–	–
3NA3232-6	–	–	–
–	–	–	–
–	–	–	–
3NA3236	–	–	–
3NA3236-6	–	–	–
3NA3240	–	3NA3340	–
3NA3240-6	–	–	–
3NA3242	–	3NA3342	–
–	3NA3242-6	–	–
3NA3244	–	3NA3344	–
–	3NA3244-6	3NA3344-6	–
–	3NA3250	3NA3350	–
–	3NA3250-6	–	–
–	3NA3252	3NA3352	–
–	3NA3252-6	3NA3352-6	–
–	3NA3254	3NA3354	–
–	–	–	3NA3354-6
–	3NA3260	3NA3360	–
–	–	–	3NA3360-6
–	–	–	3NA3362
–	–	–	3NA3362-6
–	–	–	3NA3365
–	–	–	3NA3365-6
–	–	–	3NA3372
–	–	–	3NA3472
–	–	–	3NA3475
–	–	–	3NA3480
–	–	–	3NA3482
–	–	–	3NA3672
–	–	–	3NA3675
–	–	–	3NA3680
–	–	–	3NA3682

LV HRC fuse links

Operational class aM, with front indicator



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

7

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

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				
80 A	400 V	–	3NA3224-4KK03	–	3NA3224-4KK04
100 A	400 V	3NA3230-4KK01	3NA3230-4KK03	3NA3230-4KK02	3NA3230-4KK04
125 A	400 V	3NA3232-4KK01	3NA3232-4KK03	3NA3232-4KK02	3NA3232-4KK04
160 A	400 V	3NA3236-4KK01	3NA3236-4KK03	3NA3236-4KK02	3NA3236-4KK04
200 A	400 V	3NA3240-4KK01	3NA3240-4KK03	3NA3240-4KK02	3NA3240-4KK04
224 A	400 V	3NA3242-4KK01	–	3NA3242-4KK02	–
250 A	400 V	3NA3244-4KK01	3NA3244-4KK03	3NA3244-4KK02	3NA3244-4KK04
315 A	400 V	3NA3252-4KK01	–	3NA3252-4KK02	–

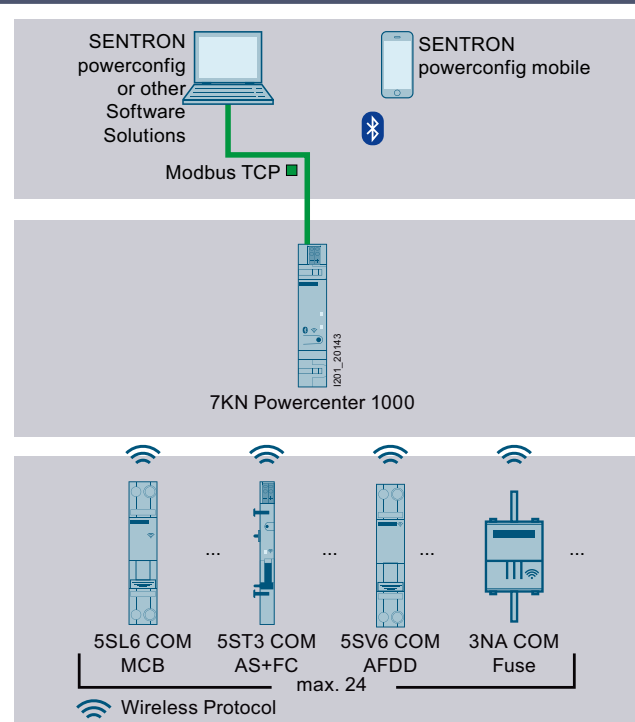
¹⁾ Electronic module is mounted by simple insertion

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

7



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.
	7KN1110-0MCO0

See page 10/19

You will find further information under:
www.siemens.com/lowvoltage/manuals

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



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



Measurement functions

- Rms value of the current (average 10 s)
- Temperature (measured in electronic module)

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	
• At reference temperature 25 °C	± 1 % (8 A ... 440 A), ± 2 % (2.5 A ... 8 A)
• In the range -10 °C ... +70 °C	± 2.2 % (8 A ... 440 A), ± 3,2 % (2.5 A ... 8 A)
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 60068-2-11/-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	U_n AC	Size 8 × 32 mm	Size 10 × 38 mm	Size 14 × 51 mm	Size 22 × 58 mm
0.5 A	500 V	–	3NW6000-1	–	–
1 A	500 V	–	3NW6011-1	–	–
2 A	400 V	3NW6302-1	–	–	–
	500 V	–	3NW6002-1	–	–
4 A	400 V	3NW6304-1	–	–	–
	500 V	–	3NW6004-1	–	–
	690 V	–	–	3NW6104-1	–
6 A	400 V	3NW6301-1	–	–	–
	500 V	–	3NW6001-1	–	–
	690 V	–	–	3NW6101-1	–
8 A	500 V	–	3NW6008-1	–	–
	690 V	–	–	3NW6108-1	–
10 A	400 V	3NW6303-1	–	–	–
	500 V	–	3NW6003-1	–	–
	690 V	–	–	3NW6103-1	–
12 A	500 V	–	3NW6006-1	–	–
	690 V	–	–	3NW6106-1	–
16 A	400 V	3NW6305-1	–	–	–
	500 V	–	3NW6005-1	–	–
	690 V	–	–	3NW6105-1	3NW6205-1
20 A	400 V	3NW6307-1	–	–	–
	500 V	–	3NW6007-1	–	–
	690 V	–	–	3NW6107-1	3NW6207-1
25 A	500 V	–	3NW6010-1	–	–
	690 V	–	–	3NW6110-1	3NW6210-1
32 A	400 V	–	3NW6012-1	–	–
	690 V	–	–	3NW6112-1	3NW6212-1
40 A	500 V	–	–	3NW6117-1	–
	690 V	–	–	–	3NW6217-1
50 A	500 V	–	–	3NW6120-1	–
	690 V	–	–	–	3NW6220-1
63 A	500 V	–	–	–	3NW6222-1
80 A	500 V	–	–	–	3NW6224-1
100 A	500 V	–	–	–	3NW6230-1

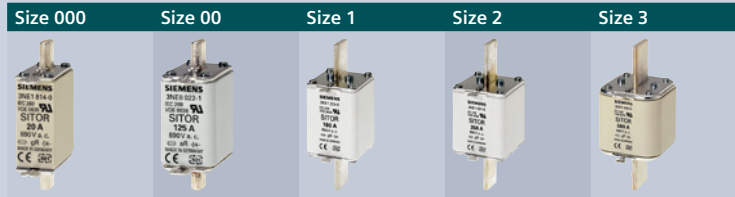
Operational class aM



I_n	U_n AC			
0.5 A	500 V	3NW8000-1	–	–
1 A	500 V	3NW8011-1	–	–
2 A	500 V	3NW8002-1	–	–
	690 V	–	3NW8102-1	–
4 A	500 V	3NW8004-1	–	–
	690 V	–	3NW8104-1	–
6 A	500 V	3NW8001-1	–	–
	690 V	–	3NW8101-1	–
8 A	500 V	3NW8008-1	–	–
	690 V	–	3NW8108-1	–
10 A	500 V	3NW8003-1	–	–
	690 V	–	3NW8103-1	–
12 A	500 V	3NW8006-1	–	–
	690 V	–	3NW8106-1	–
16 A	500 V	3NW8005-1	3NW8105-1	–
	690 V	–	–	3NW8205-1
20 A	400 V	3NW8007-1	–	–
	500 V	–	3NW8107-1	–
	690 V	–	–	3NW8207-1
25 A	400 V	3NW8010-1	–	–
	500 V	–	3NW8110-1	–
	690 V	–	–	3NW8210-1
32 A	400 V	3NW8012-1	–	–
	500 V	–	3NW8112-1	–
	690 V	–	–	3NW8212-1
40 A	500 V	–	3NW8117-1	–
	690 V	–	–	3NW8217-1
50 A	400 V	–	3NW8120-1	–
	690 V	–	–	3NW8220-1
63 A	500 V	–	–	3NW8222-1
80 A	500 V	–	–	3NW8224-1
100 A	500 V	–	–	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					
16 A	200 A ² s	4 W	1.00	690 V ¹⁾	3NE1813-0	–	–	–	–
20 A	430 A ² s	5 W	1.00	690 V ¹⁾	3NE1814-0	–	–	–	–
25 A	780 A ² s	5 W	1.00	690 V ¹⁾	3NE1815-0	–	–	–	–
35 A	1700 A ² s	3.5 W	1.00	690 V ¹⁾	3NE1803-0	–	–	–	–
40 A	3000 A ² s	3 W	1.00	690 V ¹⁾	3NE1802-0	–	–	–	–
50 A	4400 A ² s	6 W	1.00	690 V ¹⁾	3NE1817-0	–	–	–	–
63 A	9000 A ² s	7 W	1.00	690 V ¹⁾	3NE1818-0	–	–	–	–
80 A	18000 A ² s	8 W	1.00	690 V ¹⁾	3NE1820-0	–	–	–	–
100 A	33000 A ² s	10 W	1.00	690 V ¹⁾	–	3NE1021-0	–	–	–
125 A	63000 A ² s	11 W	1.00	690 V ¹⁾	–	3NE1022-0	–	–	–
160 A	60000 A ² s	24 W	1.00	690 V ¹⁾	–	–	3NE1224-0	–	–
200 A	100000 A ² s	27 W	1.00	690 V ¹⁾	–	–	3NE1225-0	–	–
250 A	200000 A ² s	30 W	1.00	690 V ¹⁾	–	–	3NE1227-0	–	–
315 A	310000 A ² s	38 W	1.00	690 V ¹⁾	–	–	3NE1230-0	–	–
350 A	430000 A ² s	42 W	1.00	690 V ¹⁾	–	–	–	3NE1331-0	–
400 A	590000 A ² s	45 W	1.00	690 V ¹⁾	–	–	–	3NE1332-0	–
450 A	750000 A ² s	53 W	1.00	690 V ¹⁾	–	–	–	3NE1333-0	–
500 A	950000 A ² s	56 W	1.00	690 V ¹⁾	–	–	–	3NE1334-0	–
560 A	1700000 A ² s	50 W	1.00	690 V ¹⁾	–	–	–	–	3NE1435-0
630 A	2350000 A ² s	55 W	1.00	690 V ¹⁾	–	–	–	–	3NE1436-0
710 A	3400000 A ² s	58 W	1.00	690 V ¹⁾	–	–	–	–	3NE1437-0
800 A	5000000 A ² s	58 W	1.00	690 V ¹⁾	–	–	–	–	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

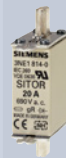
	Size 000	Size 00
Screw fixing, mounting dimension	M8, 80 mm	M10, 80 mm
		

I_n	Switch-off I^2t value	Power loss P_v	Varying load factor WL	U_n AC/DC (IEC)	U_n DC (UL)		
20 A	83 A ² s	7 W	0.90	690 V/600 V	700 V	3NE8714-1	–
25 A	140 A ² s	9 W	0.90	690 V/600 V	700 V	3NE8715-1	–
32 A	285 A ² s	10 W	0.90	690 V/600 V	700 V	3NE8701-1	–
40 A	490 A ² s	12 W	0.90	690 V/600 V	700 V	3NE8702-1	–
50 A	815 A ² s	15 W	0.90	690 V/600 V	700 V	3NE8717-1	–
63 A	1550 A ² s	16 W	0.95	690 V/700 V	700 V	3NE8718-1	–
80 A	3200 A ² s	23 W	on req.	690 V/440 V	–	–	3NE8020-3MK
100 A	5200 A ² s	29 W	on req.	690 V/440 V	–	–	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



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

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](#)



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

Size 0	Size 1	Size 2	Size 3	
				
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
3NE4101	-	-	-	-
-	-	-	-	-
-	-	-	-	-
3NE4102	-	-	-	-
-	-	-	-	-
3NE4117	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	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
■	■	■	■	■
■	■	■	■	■
See page 7/53	-	-	-	-

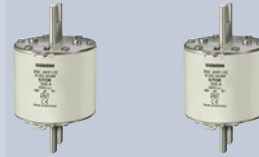
SITOR semiconductor fuse links (LV HRC design)

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/DC				
32 A	4500 A ² s	9 W	on req.	1000 V/600 V	–	–	–	3NE3201-OMK
40 A	900 A ² s	26 W	on req.	1500 V/1000 V	–	–	–	–
	6000 A ² s	13 W	on req.	1000 V/600 V	–	–	–	3NE3202-OMK
50 A	1800 A ² s	27 W	on req.	1500 V/1000 V	–	–	–	–
	8000 A ² s	18 W	on req.	1000 V/600 V	–	–	–	3NE3217-OMK
63 A	3100 A ² s	34 W	on req.	1500 V/1000 V	–	–	–	–
	9000 A ² s	25 W	on req.	1000 V/600 V	–	–	–	3NE3218-OMK
150 A	17600 A ² s	40 W	0.85	690 V ¹⁾ /–	–	3NC8423-OC	–	–
	33000 A ² s	35 W	0.85	500 V/–	3NC2423-OC	–	–	–
160 A	18600 A ² s	32 W	1.00	690 V ¹⁾ /–	–	–	3NE1224-3	–
200 A	38400 A ² s	55 W	0.85	690 V ¹⁾ /–	–	3NC8425-OC	–	–
	51800 A ² s	35 W	1.00	690 V ¹⁾ /–	–	–	3NE1225-3	–
	64000 A ² s	40 W	0.85	500 V/–	3NC2425-OC	–	–	–
250 A	70400 A ² s	72 W	0.85	690 V ¹⁾ /–	–	3NC8427-OC	–	–
	80900 A ² s	37 W	1.00	690 V ¹⁾ /–	–	–	3NE1227-3	–
	99000 A ² s	50 W	0.85	500 V/–	3NC2427-OC	–	–	–
300 A	132000 A ² s	65 W	0.85	500 V/–	3NC2428-OC	–	–	–
315 A	168000 A ² s	40 W	1.00	690 V ¹⁾ /–	–	–	3NE1230-3	–
350 A	176000 A ² s	95 W	0.85	690 V ¹⁾ /–	–	3NC8431-OC	–	–
	177000 A ² s	43 W	1.00	690 V ¹⁾ /–	–	–	–	–
	249000 A ² s	60 W	0.85	500 V/–	3NC2431-OC	–	–	–
400 A	224000 A ² s	50 W	1.00	690 V ¹⁾ /–	–	–	–	–
450 A	276500 A ² s	58 W	1.00	690 V ¹⁾ /–	–	–	–	–
500 A	398000 A ² s	64 W	1.00	690 V ¹⁾ /–	–	–	–	–
	448000 A ² s	130 W	0.85	690 V ¹⁾ /–	–	3NC8434-OC	–	–
560 A	890000 A ² s	60 W	1.00	690 V ¹⁾ /–	–	–	–	–
630 A	1390000 A ² s	60 W	1.00	690 V ¹⁾ /–	–	–	–	–
670 A	1640000 A ² s	64 W	1.00	690 V ¹⁾ /–	–	–	–	–
710 A	1818000 A ² s	72 W	1.00	690 V ¹⁾ /–	–	–	–	–
800 A	2475000 A ² s	84 W	1.00	690 V ¹⁾ /–	–	–	–	–
850 A	3640000 A ² s	76 W	1.00	690 V ¹⁾ /–	–	–	–	–
1000 A	1400000 A ² s	138 W	1.00	690 V ¹⁾ /–	–	–	–	–
1100 A	3000000 A ² s	110 W	1.00	690 V ¹⁾ /–	–	–	–	–
1250 A	4100000 A ² s	104 W	1.00	690 V ¹⁾ /–	–	–	–	–
1350 A	4800000 A ² s	126 W	1.00	690 V ¹⁾ /–	–	–	–	–
1400 A	5200000 A ² s	127 W	1.00	690 V ¹⁾ /–	–	–	–	–
1600 A	6900000 A ² s	152 W	1.00	690 V ¹⁾ /–	–	–	–	–
1700 A	6400000 A ² s	179 W	1.00	690 V ¹⁾ /–	–	–	–	–
1700 A	10000000 A ² s	143 W	1.00	690 V ¹⁾ /–	–	–	–	–
1900 A	8200000 A ² s	196 W	1.00	690 V ¹⁾ /–	–	–	–	–

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 mm	M10, 170 mm	M10, 110 mm		M12, 110 mm	M12, 110 mm ²⁾	M12, 110 mm ²⁾	M12, 110 mm ²⁾	M12, 110 mm ²⁾	M12, 110 mm ²⁾
-	-	-	-	-	-	-	-	-	-
-	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	3NH5473	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

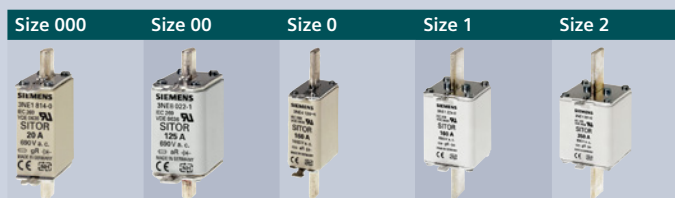


I_n	Switch-off I^2t value	Power loss P_v	Varying load factor WL	U_n AC/DC (IEC)	U_n DC (UL)		
80 A	2700 A ² s	18 W	0.90	690 V/600 V	700 V	3NE8720-1	–
100 A	4950 A ² s	19 W	0.95	690 V/600 V	700 V	3NE8721-1	–
125 A	9100 A ² s	23 W	0.95	690 V/600 V	700 V	3NE8722-1	–
160 A	17000 A ² s	31 W	0.90	690 V/600 V	700 V	3NE8724-1	–
200 A	30000 A ² s	36 W	0.90	690 V/600 V	700 V	3NE8725-1	–
250 A	55000 A ² s	42 W	0.90	690 V/600 V	700 V	3NE8727-1	–
315 A	85500 A ² s	54 W	0.85	690 V/600 V	700 V	3NE8731-1	–
350 A	135000 A ² s	58.8 W	on req.	690 V/440 V	–	–	3NE8031-3MK
400 A	170000 A ² s	74.5 W	on req.	690 V/440 V	–	–	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

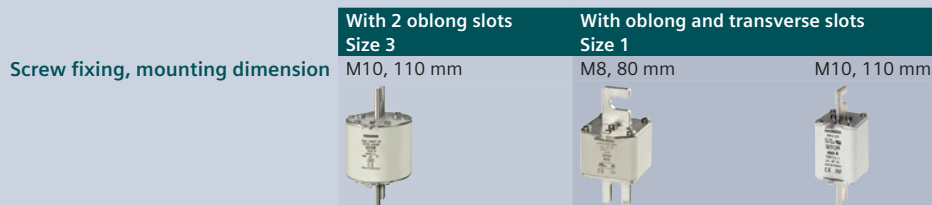


I_n	Switch-off I^2t value	Power loss P_v	Varying load factor WL	U_n AC/DC	Size 000	Size 00	Size 0	Size 1	Size 2
63 A	1500 A ² s	20 W	0.90	1000 V ¹⁾ /–	–	–	3NE4118	–	–
80 A	2200 A ² s	23.3 W	on req.	690 V/440 V	3NE8820-0MK	–	–	–	–
	2400 A ² s	19 W	0.95	690 V ¹⁾ /–	–	3NE8020-1	–	–	–
	3000 A ² s	22 W	0.90	1000 V ¹⁾ /–	–	–	3NE4120	–	–
100 A	3650 A ² s	27 W	on req.	690 V/440 V	3NE8821-0MK	–	–	–	–
	6050 A ² s	25.5 W	on req.	690 V/440 V	–	–	–	3NE8221-0MK	–
	4200 A ² s	22 W	0.95	690 V ¹⁾ /–	–	3NE8021-1	–	–	–
	6000 A ² s	24 W	0.90	1000 V ¹⁾ /–	–	–	3NE4121	–	–
125 A	7800 A ² s	30 W	on req.	690 V/440 V	3NE8822-0MK	–	–	–	–
	8900 A ² s	28.5 W	on req.	690 V/440 V	–	–	–	3NE8222-0MK	–
	6500 A ² s	28 W	0.95	690 V ¹⁾ /–	–	3NE8022-1	–	–	–
	14000 A ² s	30 W	0.90	1000 V ¹⁾ /–	–	–	3NE4122	–	–
160 A	14000 A ² s	34 W	on req.	500 V/440 V	3NE8824-0MK	–	–	–	–
	16200 A ² s	37 W	on req.	690 V/440 V	–	–	–	3NE8224-0MK	–
	13000 A ² s	38 W	0.95	690 V ¹⁾ /–	–	3NE8024-1	–	–	–
	29000 A ² s	35 W	0.90	1000 V ¹⁾ /–	–	–	3NE4124	–	–
200 A	26000 A ² s	49 W	on req.	690 V/440 V	–	–	–	3NE8225-0MK	–
250 A	59000 A ² s	52 W	on req.	690 V/440 V	–	–	–	3NE8227-0MK	–
315 A	120000 A ² s	68 W	on req.	690 V/440 V	–	–	–	3NE8230-0MK	–
350 A	83500 A ² s	68.6 W	on req.	690 V/440 V	–	–	–	–	3NE8331-0MK
400 A	136000 A ² s	72.8 W	on req.	690 V/440 V	–	–	–	–	3NE8332-0MK
450 A	207000 A ² s	80.1 W	on req.	690 V/440 V	–	–	–	–	3NE8333-0MK
500 A	318000 A ² s	77.5 W	on req.	690 V/440 V	–	–	–	–	3NE8334-0MK
550 A	399000 A ² s	86.4 W	on req.	690 V/440 V	–	–	–	–	3NE8335-0MK
630 A	740000 A ² s	90.7 W	on req.	690 V/440 V	–	–	–	–	3NE8336-0MK
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/DC			
80 A	3900 A ² s	42 W	on req.	1500 V/1000 V	–	–	–
100 A	4800 A ² s	28 W	0.95	1000 V ^{1)/–}	–	–	3NE3221
	3200 A ² s	25 W	on req.	690 V/440 V	–	3NE8221-3MK	–
	8700 A ² s	45 W	on req.	1500 V/1000 V	–	–	–
125 A	7200 A ² s	36 W	0.95	1000 V ^{1)/–}	–	–	3NE3222
	6000 A ² s	28 W	on req.	690 V/440 V	–	3NE8222-3MK	–
	11800 A ² s	59 W	on req.	1500 V/1000 V	–	–	–
160 A	13000 A ² s	42 W	1.00	1000 V ^{1)/–}	–	–	3NE3224
	10500 A ² s	35 W	on req.	690 V/440 V	–	3NE8224-3MK	–
	37000 A ² s	54 W	on req.	1500 V/1000 V	–	–	–
200 A	30000 A ² s	42 W	1.00	1000 V ^{1)/–}	–	–	3NE3225
	17500 A ² s	42 W	on req.	690 V/440 V	–	3NE8225-3MK	–
	70000 A ² s	56 W	on req.	1500 V/1000 V	–	–	–
250 A	29700 A ² s	105 W	0.85	800 V ^{1)/–}	–	–	–
	48000 A ² s	50 W	1.00	1000 V ^{1)/–}	–	–	3NE3227
	28500 A ² s	53.5 W	on req.	690 V/440 V	–	3NE8227-3MK	–
	165000 A ² s	59 W	on req.	1500 V/1000 V	–	–	–
315 A	60700 A ² s	120 W	0.85	800 V ^{1)/–}	–	–	–
	80000 A ² s	60 W	0.95	1000 V ^{1)/–}	–	–	3NE3230-0B
	300000 A ² s	245 W	on req.	–/3000 V	–	–	–
	53500 A ² s	61 W	on req.	690 V/440 V	–	3NE8230-3MK	–
	250000 A ² s	76 W	on req.	1500 V/1000 V	–	–	–
350 A	100000 A ² s	75 W	0.95	1000 V ^{1)/–}	–	–	3NE3231
	66000 A ² s	69 W	on req.	690 V/440 V	–	3NE8231-3MK	–
400 A	390000 A ² s	50 W	0.85	500 V ^{1)/–}	3NC2432-0C	–	–
	135000 A ² s	80 W	1.00	1000 V ^{1)/–}	–	–	–
		85 W	0.90	1000 V ^{1)/–}	–	–	3NE3232-0B
	110000 A ² s	70.5 W	on req.	690 V/440 V	–	3NE8232-3MK	–
450 A	470000 A ² s	89 W	on req.	1500 V/1000 V	–	–	–
	191000 A ² s	140 W	0.85	800 V ^{1)/–}	–	–	–
	175000 A ² s	90 W	1.00	1000 V ^{1)/–}	–	–	–
500 A		95 W	0.90	1000 V ^{1)/–}	–	–	3NE3233
	180000 A ² s	71 W	on req.	690 V/440 V	–	3NE8233-3MK	–
	276000 A ² s	155 W	0.85	800 V ^{1)/–}	–	–	–
	260000 A ² s	90 W	1.00	1000 V ^{1)/–}	–	–	–
	215000 A ² s	84 W	on req.	690 V/440 V	–	3NE8234-3MK	–
550 A	500000 A ² s	105 W	on req.	1000 V/600 V	–	–	–3NE3234-0MK08
	800000 A ² s	109 W	on req.	1500 V/1000 V	–	–	–
	290000 A ² s	87 W	on req.	690 V/440 V	–	3NE8235-3MK	–
560 A	700000 A ² s	110 W	on req.	1000 V/600 V	–	–	3NE3235-0MK08
	360000 A ² s	95 W	1.00	1000 V ^{1)/–}	–	–	–
630 A	600000 A ² s	100 W	1.00	1000 V ^{1)/–}	–	–	–
	440000 A ² s	96 W	on req.	690 V/440 V	–	3NE8236-3MK	–
	850000 A ² s	127 W	on req.	1000 V/600 V	–	–	3NE3236-0MK08
	1100000 A ² s	163 W	on req.	1500 V/1000 V	–	–	–
710 A	923000 A ² s	155 W	0.95	800 V ^{1)/–}	–	–	–
	800000 A ² s	105 W	1.00	900 V ^{1)/–}	–	–	–
800 A	850000 A ² s	130 W	0.95	800 V ^{1)/–}	–	–	–
900 A	920000 A ² s	165 W	0.95	690 V ^{1)/–}	–	–	–

Further information

Screw fixing	■	■	■
Installation in SITOR fuse bases	3NH5463	3NH5423	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



M10, 110 mm	M10, 170 mm	M10, 190 mm	M12, 260 mm
–	3NE5320-0MK06	–	–
–	–	–	–
–	–	–	–
–	3NE5321-0MK06	–	–
–	–	–	–
–	–	–	–
–	3NE5322-0MK06	–	–
–	–	–	–
–	–	–	–
–	3NE5324-0MK06	–	–
–	–	–	–
–	–	–	–
–	3NE5325-0MK06	–	–
3NE4327-0B	–	–	–
–	–	–	–
–	–	–	–
–	3NE5327-0MK06	–	–
3NE4330-0B	–	–	–
–	–	–	–
–	–	–	3NE9330-0MK07
–	–	–	–
–	3NE5330-0MK06	–	–
–	–	–	–
–	–	–	–
3NE3332-0B	–	–	–
–	–	–	–
–	–	–	–
–	3NE5332-0MK06	–	–
3NE4333-0B	–	–	–
3NE3333	–	–	–
–	–	–	–
–	–	–	–
3NE4334-0B	–	–	–
3NE3334-0B	–	–	–
–	–	–	–
–	–	–	–
–	3NE5334-0MK06	–	–
–	–	–	–
–	–	–	–
3NE3335	–	–	–
3NE3336	–	–	–
–	–	–	–
–	–	–	–
–	3NE5336-0MK06	3NE5336-0MK66	–
3NE4337	–	–	–
3NE3337-8	–	–	–
3NE3338-8	–	–	–
3NE3340-8	–	–	–
–	–	–	–
■	■	■	■
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 ¹⁾				
100 A	13500 A ² s	25 W	1.00	1000 V	–	3NE3421-0C	–	–
125 A	34500 A ² s	78 W	1.00	2500 V	–	–	–	–
160 A	54000 A ² s	56 W	1.00	1500 V	–	–	–	3NE5424-0C
200 A	138000 A ² s	75 W	1.00	2000 V	–	–	–	3NE7425-0U
224 A	54000 A ² s	85 W	1.00	1000 V	–	3NE3626-0C	–	–
	138000 A ² s	80 W	1.00	1500 V	–	–	–	3NE5426-0C
250 A	84000 A ² s	130 W	1.00	1500 V	–	–	3NE5627-0C	–
	218000 A ² s	110 W	1.00	2000 V	–	–	–	3NE7427-0U
315 A	218000 A ² s	80 W	1.00	1000 V	–	3NE3430-0C	–	–
	72500 A ² s	80 W	0.95	1250 V	–	–	–	–
	311000 A ² s	115 W	1.00	1500 V	–	–	–	3NE5430-0C
350 A	428000 A ² s	135 W	1.00	1500 V	–	–	–	3NE5431-0C
	555000 A ² s	120 W	1.00	2000 V	–	–	–	3NE7431-0U
400 A	390000 A ² s	50 W	0.85	500 V	3NC2432-3C	–	–	–
	364000 A ² s	110 W	1.00	1000 V	–	3NE3432-0C	–	–
	163000 A ² s	95 W	0.95	1250 V	–	–	–	–
	620000 A ² s	205 W	1.00	2500 V	–	–	–	–
	870000 A ² s	150 W	1.00	2000 V	–	–	–	3NE7432-0U
450 A	488000 A ² s	110 W	1.00	1000 V	–	3NE3635-0C	–	–
	590000 A ² s	160 W	1.00	1500 V	–	–	3NE5633-0C	–
	870000 A ² s	145 W	0.95	1500 V	–	–	–	3NE5433-0C
	960000 A ² s	160 W	1.00	2000 V	–	–	–	3NE7633-0U
500 A	870000 A ² s	95 W	1.00	1000 V	–	3NE3434-0C	–	–
	290000 A ² s	115 W	0.90	1250 V	–	–	–	–
	1270000 A ² s	235 W	1.00	2500 V	–	–	–	–
525 A	1120000 A ² s	210 W	1.00	2000 V	–	–	–	–
600 A	1950000 A ² s	145 W	1.00	1500 V	–	–	3NE5643-0C	–
630 A	244000 A ² s	120 W	0.85	690 V	–	–	–	–
	418000 A ² s	145 W	0.85	1000 V	–	–	–	–
	1280000 A ² s	132 W	1.00	1000 V	–	3NE3636-0C	–	–
	650000 A ² s	120 W	0.95	1250 V	–	–	–	–
	1950000 A ² s	220 W	1.00	2000 V	–	–	–	3NE7636-0U
710 A	2800000 A ² s	275 W	1.00	2500 V	–	–	–	–
	346000 A ² s	130 W	0.85	690 V	–	–	–	–
	569000 A ² s	150 W	0.85	1000 V	–	–	–	–
	1950000 A ² s	145 W	1.00	1000 V	–	3NE3637-0C	–	–
800 A	3110000 A ² s	275 W	1.00	2000 V	–	–	–	–
	498000 A ² s	135 W	0.90	690 V	–	–	–	–
	819000 A ² s	155 W	0.85	1000 V	–	–	–	–
900 A	985000 A ² s	145 W	0.90	1100 V	–	–	–	–
	677000 A ² s	145 W	0.90	690 V	–	–	–	–
1000 A	1160000 A ² s	165 W	0.90	1000 V	–	–	–	–
	2480000 A ² s	140 W	0.85	600 V	3NC8444-3C	–	–	–
1100 A	975000 A ² s	155 W	0.95	690 V	–	–	–	–
	1670000 A ² s	170 W	0.90	1000 V	–	–	–	–
	1382000 A ² s	165 W	0.95	690 V	–	–	–	–
1250 A	1910000 A ² s	185 W	0.90	800 V	–	–	–	–
	1990000 A ² s	175 W	0.95	690 V	–	–	–	–
1400 A	2600000 A ² s	210 W	0.90	800 V	–	–	–	–
	2100000 A ² s	200 W	0.95	500 V	–	–	–	–
1600 A	2860000 A ² s	240 W	0.90	500 V	–	–	–	–

Further information

Screw fixing	■	■	■	■
Installation in SITOR fuse bases	3NH5463	–	3NH5473	–
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
				
-	-	-	-	-
-	-	-	-	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	-	-	-
-	■	-	-	-
-	■	-	-	-
-	-	-	-	-

SITOR semiconductor fuse links (LV HRC design)

Operational class aR, with female thread at both ends



I_n	Operating value I^2t	Power loss P_v	Varying load factor WL	U_n AC ¹⁾		
315 A	72500 A ² s	80 W	0.95	1250 V	–	–
400 A	163000 A ² s	95 W	0.95	1250 V	–	–
450 A	488000 A ² s	110 W	1.00	1000 V	3NE3635-6	–
500 A	290000 A ² s	115 W	0.90	1250 V	–	–
630 A	244000 A ² s	125 W	0.90	690 V	–	3NC3236-6U
	418000 A ² s	130 W	0.90	1000 V	–	–
	650000 A ² s	120 W	0.95	1250 V	–	–
710 A	346000 A ² s	130 W	0.90	690 V	–	3NC3237-6U
	569000 A ² s	140 W	0.90	1000 V	–	–
800 A	498000 A ² s	135 W	0.95	690 V	–	3NC3238-6U
	819000 A ² s	150 W	0.90	1000 V	–	–
	985000 A ² s	145 W	0.95	1100 V	–	–
900 A	677000 A ² s	140 W	0.95	690 V	–	3NC3240-6U
	1160000 A ² s	160 W	0.95	1000 V	–	–
1000 A	975000 A ² s	145 W	1.00	690 V	–	3NC3241-6U
	1670000 A ² s	165 W	0.95	1000 V	–	–
1100 A	1382000 A ² s	150 W	1.00	690 V	–	3NC3242-6U
	1910000 A ² s	175 W	0.95	800 V	–	–
1250 A	1990000 A ² s	155 W	1.00	690 V	–	3NC3243-6U
	2600000 A ² s	185 W	0.95	800 V	–	–
1400 A	2100000 A ² s	175 W	1.00	500 V	–	3NC3244-6U
1600 A	2860000 A ² s	195 W	0.95	500 V	–	3NC3245-6U

Further information

Screw fixing



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

M12, 73 mm



M12, 73 mm



–	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

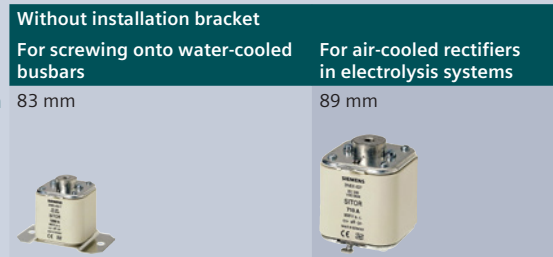


I_n	Switch-off I^2t value	Power loss P_v	Varying load factor WL	U_n AC		
50 A	1100 A ² s	20 W	0.85	600 V	–	3NE4117-5
850 A	2480000 A ² s	85 W	1.00	1000 V	3NE9440-6	–
Further information						
Screw fixing					■	■


7

Operational class aR, special designs

Flange dimension



I_n	Switch-off I^2t value	Power loss P_v	Varying load factor WL	U_n AC		
100 A	7400 A ² s	35 W	0.85	1000 V	–	–
170 A	60500 A ² s	43 W	0.85	1000 V	–	–
200 A	44000 A ² s	50 W	0.85	1000 V	–	–
250 A	635000 A ² s	25 W	0.90	680 V	–	–
	29700 A ² s	105 W	0.85	800 V	–	–
315 A	60700 A ² s	120 W	0.85	800 V	–	–
350 A	1430000 A ² s	32 W	0.90	680 V	–	–
	260000 A ² s	80 W	0.90	800 V	3NC5531	–
350 A	1430000 A ² s	32 W	0.90	680 V	–	–
	191000 A ² s	140 W	0.85	800 V	–	–
450 A	395000 A ² s	90 W	0.85	1000 V	–	–
	276000 A ² s	155 W	0.85	800 V	–	–
600 A	888000 A ² s	150 W	0.90	1000 V	3NC5840	–
630 A	888000 A ² s	145 W	0.90	800 V	3NC5841	–
710 A	923000 A ² s	155 W	0.95	800 V	–	–
	620000 A ² s	150 W	0.90	900 V	3NE6437-7	3NE6437
800 A	1728000 A ² s	170 W	0.90	1000 V	3NC5838	–
900 A	1920000 A ² s	170 W	0.90	900 V	–	3NE6444
1250 A	2480000 A ² s	210 W	0.90	600 V	3NE9450-7	3NE9450
Further information						
Screw fixing					■	■

For mounting directly in the railway supply rectifier	For SITOR 6QG12 thyristor sets	With installation bracket For SITOR 6QG10 thyristor sets	For SITOR 6QG11 thyristor sets
	77 mm 		
-	-	-	3NE4121-5
-	-	-	3NE4146-5
-	-	3NE3525-5	-
3NC7327-2	-	-	-
-	3NE4327-6B	-	-
-	3NE4330-6B	-	-
3NC7331-2	-	-	-
-	-	-	-
3NC7331-2	-	-	-
-	3NE4333-6B	-	-
-	-	3NE3535-5	-
-	3NE4334-6B	-	-
-	-	-	-
-	-	-	-
-	3NE4337-6	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
■	■	■	■

SITOR semiconductor fuse links (LV HRC design)

DC fuses, operational class gR, with slotted blade contacts

Screw fixing Size 2L M12



I_n	Switch-off I^2t value	Power loss P_v	Varying load factor WL	U_n DC	
400 A	180000 A ² s ¹⁾	75 W	–	900 V	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	U_n DC/ U_{VSI}	Size 1L	Size 2L	Size 3L	Size 2 x 3L	Size 3 x 3L
					M12	M12	M12	M12	M12
200 A	39000 A ² s	50 W	–	1250 V/1500 V	3NB1126-4KK11	–	–	–	–
250 A	80500 A ² s	51 W	–	1250 V/1500 V	3NB1128-4KK11	–	–	–	–
315 A	129000 A ² s	63 W	–	1250 V/1500 V	–	3NB1231-4KK11	–	–	–
400 A	290000 A ² s	68 W	–	1250 V/1500 V	–	3NB1234-4KK11	–	–	–
500 A	600000 A ² s	89 W	–	1250 V/1500 V	–	–	3NB1337-4KK11	–	–
800 A	1910000 A ² s	135 W	–	1250 V/1500 V	–	–	3NB1345-4KK11	–	–
800 A	1150000 A ² s	160 W	–	1250 V/1500 V	–	–	–	3NB2345-4KK16	–
1000 A	2250000 A ² s	195 W	–	1250 V/1500 V	–	–	–	3NB2350-4KK16	–
1400 A	5100000 A ² s	250 W	–	1250 V/1500 V	–	–	–	3NB2355-4KK16	–
1600 A	7450000 A ² s	275 W	–	1250 V/1500 V	–	–	–	3NB2357-4KK16	–
2100 A	11950000 A ² s	365 W	–	1250 V/1500 V	–	–	–	–	3NB2364-4KK17
2400 A	18100000 A ² s	445 W	–	1250 V/1500 V	–	–	–	–	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	
1 A	2 A ² s	2 W	1500 V/1000 V	3NC2301-0MK
2 A	4.4 A ² s	2.5 W	1500 V/1000 V	3NC2302-0MK
4 A	55 A ² s	5.3 W	1500 V/1000 V	3NC2304-0MK
6 A	150 A ² s	6.4 W	1500 V/1000 V	3NC2306-0MK
10 A	540 A ² s	3.1 W	1500 V/1000 V	3NC2310-0MK
16 A	1120 A ² s	4.7 W	1500 V/1000 V	3NC2316-0MK
20 A	2850 A ² s	5.4 W	1500 V/1000 V	3NC2320-0MK
25 A	3300 A ² s	6.9 W	1500 V/1000 V	3NC2325-0MK
32 A	9050 A ² s	6.7 W	1500 V/1000 V	3NC2332-0MK
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

SITOR semiconductor fuse links (cylindrical fuse design)

Operational class gR



I_n	Switch-off I^2t value	Power loss P_v	U_n AC/DC				
6 A	3.5 A ² s	3.1 W	690 V/700 V ¹⁾	–	3NC1406-0MK	–	–
	6.5 A ² s	2.5 W	690 V/440 V	3NC1006-0MK	–	–	–
10 A	15 A ² s	4.6 W	690 V/700 V ¹⁾	–	3NC1410-0MK	–	–
	17 A ² s	4.3 W	690 V/440 V	–	–	–	–
	18 A ² s	3.3 W	690 V/440 V	3NC1010-0MK	–	–	–
12 A	35 A ² s	4 W	690 V/440 V	3NC1012-0MK	–	–	–
16 A	32 A ² s	6.7 W	690 V/600 V	–	3NC1416-0MK	–	–
	45 A ² s	6 W	690 V/440 V	3NC1016-0MK	–	–	–
	52 A ² s	4.4 W	690 V/440 V	–	–	–	–
20 A	68 A ² s	7.4 W	690 V/600 V	–	3NC1420-0MK	–	–
	90 A ² s	6.5 W	690 V/440 V	–	–	–	–
	110 A ² s	7.8 W	690 V/250 V	3NC1020-0MK	–	–	–
25 A	108 A ² s	8.4 W	690 V/600 V	–	3NC1425-0MK	–	–
	120 A ² s	9.5 W	690 V/440 V	–	–	–	–
	140 A ² s	8.7 W	690 V/250 V	3NC1020-0MK	–	–	–
	160 A ² s	8.5 W	690 V/440 V	–	–	–	–
	180 A ² s	8.1 W	690 V/700 V ¹⁾	–	–	3NC2225-0MK	–
32 A	175 A ² s	12.3 W	690 V/600 V	–	3NC1432-0MK	–	–
	220 A ² s	12.3 W	690 V/440 V	–	–	–	–
	400 A ² s	8.9 W	690 V/440 V	–	–	–	–
	420 A ² s	9 W	690 V/600 V	–	–	3NC2232-0MK	–
	450 A ² s	12 W	690 V/250 V	3NC1020-0MK	–	–	–
40 A	400 A ² s	14.8 W	690 V/440 V	–	–	–	–
	470 A ² s	11.7 W	690 V/440 V	–	3NC1440-0MK	–	–
	600 A ² s	11 W	690 V/440 V	–	–	–	–
	700 A ² s	12.5 W	690 V/440 V	–	–	3NC2240-0MK	–
	1850 A ² s	9.4 W	1500 V/1000 V	–	–	–	3NC2340-0MK
50 A	830 A ² s	16.3 W	690 V/250 V	–	–	–	–
	980 A ² s	17.5 W	690 V/440 V	–	–	–	–
	1250 A ² s	13.8 W	690 V/440 V	–	–	–	–
	1250 A ² s	15.2 W	690 V/250 V	–	–	–	–
63 A	2050 A ² s	18.8 W	690 V/440 V	–	–	–	–
	2400 A ² s	17.5 W	690 V/250 V	–	–	–	–
80 A	4400 A ² s	23 W	690 V/250 V	–	–	–	–
100 A	11500 A ² s	28.7 W	690 V/250 V	–	–	–	–

Further information							
Screw fixing				–	–	–	–
Installation in SITOR fuse holders		3NC109.		3NC149.		3NC229.	3NC23
Installation in SITOR fuse bases		–		–		–	–
Further currents, operational class gS		–		–		–	See page 7/63
Further currents, operational class aR		–		–		–	See page 7/66

¹⁾ Observe 600 V DC voltage according to IEC, 700 V according to UL, time constant and minimum breaking current MBC.

With M8 bolt-on links

Size 18 × 88 mm

Size 26 × 103 mm



-	-
-	-
-	-
3NC1810-0MK	-
-	-
-	-
-	-
3NC1816-0MK	-
-	-
3NC1820-0MK	-
-	-
-	-
-	3NC2625-0MK
-	-
3NC1825-0MK	-
-	-
-	-
-	3NC2632-0MK
3NC1832-0MK	-
-	-
-	-
-	3NC2640-0MK
-	-
3NC1840-0MK	-
-	-
-	-
-	3NC2650-0MK
3NC1850-0MK	-
-	-
-	3NC2663-0MK
-	-
-	-
-	-
■	■
-	-
3NH5723	3NH5023
-	-
-	-

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			
1 A	1.2 A ² s	5 W	660 V _I -	-	3NC1401	-
2 A	10 A ² s	3 W	660 V _I -	-	3NC1402	-
3 A	8 A ² s	1.2 W	600/700 V ¹⁾	3NC1003	-	-
	15 A ² s	2.5 W	660 V _I -	-	3NC1403	-
4 A	25 A ² s	3 W	660 V _I -	-	3NC1404	-
5 A	11 A ² s	1.5 W	690/700 V ¹⁾	-	3NC1405	-
6 A	11 A ² s	1.5 W	690/700 V ¹⁾	-	3NC1406	-
	20 A ² s	1.5 W	600/700 V ¹⁾	3NC1006	-	-
8 A	30 A ² s	2 W	600/700 V ¹⁾	3NC1008	-	-
10 A	22 A ² s	4 W	690/700 V ¹⁾	-	3NC1410	-
	32 A ² s	4 W	690/600 V ¹⁾	-	-	3NC1410-5
	60 A ² s	2.5 W	600/700 V ¹⁾	3NC1010	-	-
12 A	110 A ² s	3 W	600/700 V ¹⁾	3NC1012	-	-
15 A	63 A ² s	5.5 W	690/600 V ¹⁾	-	-	3NC1415-5
	70 A ² s	5.5 W	690/700 V ¹⁾	-	3NC1415	-
16 A	150 A ² s	3.5 W	600/700 V ¹⁾	3NC1016	-	-
20 A	100 A ² s	6 W	690/700 V ¹⁾	-	3NC1420	-
	200 A ² s	4.8 W	600/700 V ¹⁾	3NC1020	-	-
	220 A ² s	4.6 W	690/700 V ¹⁾	-	-	-
	234 A ² s	6 W	690/600 V ¹⁾	-	-	3NC1420-5
	240 A ² s	5 W	690/500 V ¹⁾	-	-	-
25 A	250 A ² s	6 W	600/700 V ¹⁾	3NC1025	-	-
	300 A ² s	5.6 W	690/700 V ¹⁾	-	-	-
	320 A ² s	7 W	690/700 V ¹⁾	-	3NC1425	-
	350 A ² s	6 W	690/500 V ¹⁾	-	-	-
	378 A ² s	7 W	690/600 V ¹⁾	-	-	3NC1425-5
30 A	400 A ² s	9 W	690/700 V ¹⁾	-	3NC1430	-
	466 A ² s	9 W	690/600 V ¹⁾	-	-	3NC1430-5
32 A	450 A ² s	7 W	690/700 V ¹⁾	-	-	-
	500 A ² s	7.5 W	660 V _I -	3NC1032	-	-
	500 A ² s	8 W	690/500 V ¹⁾	-	-	-
	600 A ² s	7.6 W	690/700 V ¹⁾	-	3NC1432	-
	600 A ² s	7.6 W	690/600 V ¹⁾	-	-	3NC1432-5
40 A	700 A ² s	8.5 W	690/700 V ¹⁾	-	-	-
	750 A ² s	8 W	690/600 V ¹⁾	-	-	3NC1440-5
	750 A ² s	8 W	690/700 V ¹⁾	-	3NC1440	-
	800 A ² s	9 W	690/500 V ¹⁾	-	-	-
Further information						
Screw fixing				-	-	-
Installation in SITOR fuse holders				3NC109.	3NC149.	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

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			
50 A	1350 A ² s	9.5 W	690/700 V ¹⁾	–	–	–
	1500 A ² s	9.5 W	690/500 V ¹⁾	–	–	–
	1800 A ² s	9 W	690/600 V ¹⁾	–	–	–
	1800 A ² s	9 W	690/700 V ¹⁾	–	3NC1450	3NC1450-5
	26000 A ² s	11.6 W	1500/1000 V	–	–	–
63 A	2100 A ² s	16.7 W	690/250 V	–	3NC1463-0MK	–
	2600 A ² s	11 W	690/700 V ¹⁾	–	–	–
	3000 A ² s	11 W	690/500 V ¹⁾	–	–	–
80 A	3500 A ² s	22.5 W	690/440 V	–	–	–
	5500 A ² s	13.5 W	690/700 V ¹⁾	–	–	–
	6000 A ² s	13.5 W	690/500 V ¹⁾	–	–	–
100 A	5400 A ² s	31.5 W	690/440 V	–	–	–
	8000 A ² s	16 W	690/700 V ¹⁾	–	–	–
	8500 A ² s	16 W	600/500 V ¹⁾	–	–	–
125 A	11800 A ² s	39 W	690/440 V	–	–	–
	29000 A ² s	35.3 W	690/250 V	–	–	–
Further information						
Screw fixing				–	–	–
Installation in SITOR fuse holders				3NC109.	3NC149.	3NC149.-5
Installation in SITOR fuse bases				–	–	–
Further currents, operational class gS				–	–	–
Further currents, operational class aR				–	–	–

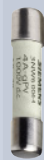
¹⁾ Observe DC voltage acc. to UL, time constant and minimum breaking current MBC

Size 22 × 58 mm		Size 22 × 127 mm	
Standard	With striking pin		Size 26 × 103 mm
			
3NC2250	–	–	–
–	3NC2250-5	–	–
–	–	–	–
–	–	3NC2350-0MK	–
–	–	–	–
3NC2263	–	–	–
–	3NC2263-5	–	–
–	–	–	3NC2680-0MK
3NC2280	–	–	–
–	3NC2280-5	–	–
–	–	–	3NC2600-0MK
3NC2200	–	–	–
–	3NC2200-5	–	–
–	–	–	3NC2611-0MK
3NC2211-0MK	–	–	–
–	–	–	■
3NC229.	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		
2 A	1.4 W	0.6 W	1000 V	3NW6002-4	–
4 A	1.6 W	0.7 W	1000 V	3NW6004-4	–
	2.7 W	1.1 W	1500 V	–	3NW6604-4
6 A	1.7 W	0.7 W	1000 V	3NW6001-4	–
	3.0 W	1.2 W	1500 V	–	3NW6601-4
8 A	1.9 W	0.8 W	1000 V	3NW6008-4	–
	3.6 W	1.5 W	1500 V	–	3NW6608-4
10 A	2.3 W	1.0 W	1000 V	3NW6003-4	–
	3.7 W	1.6 W	1500 V	–	3NW6603-4
12 A	2.7 W	1.1 W	1000 V	3NW6006-4	–
	3.3 W	1.4 W	1500 V	–	3NW6606-4
16 A	3.2 W	1.3 W	1000 V	3NW6005-4	–
	3.7 W	1.6 W	1500 V	–	3NW6605-4
20 A	3.4 W	1.4 W	1000 V	3NW6007-4	–
	4.0 W	1.7 W	1200 V	–	3NW6607-4
Further information					
Installation in fuse holders				3NW70...-4	3NW76...-4

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

Photovoltaic cumulative fuse links

Operational class gPV

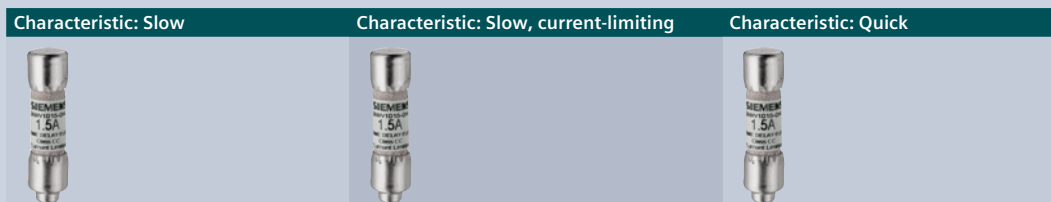


I_n DC	Power loss P_V	U_n DC	Size 1	Size 1L	Size 2L	Size 3L	Size 1XL	Size 2XL
63 A	19 W	1000 V	3NE1218-4	–	–	–	–	–
	20 W	1500 V	–	–	–	–	3NE1218-5E	–
80 A	20 W	1000 V	3NE1220-4	–	–	–	–	–
	25 W	1500 V	–	–	–	–	3NE1220-5E	–
100 A	24 W	1000 V	3NE1221-4	–	–	–	–	–
	30 W	1500 V	–	–	–	–	3NE1221-5E	–
125 A	26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

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Class CC fuse links

Acc. to UL



I_n	$I_n^{1)}$			
0.6 A	6/10 A	3NW1006-0HG	–	–
0.8 A	8/10 A	3NW1008-0HG	–	–
1 A	–	3NW1010-0HG	3NW3010-0HG	3NW2010-0HG
1.5 A	1.5 A	3NW1015-0HG	–	–
2 A	–	3NW1020-0HG	3NW3020-0HG	3NW2020-0HG
2.5 A	–	3NW1025-0HG	–	–
3 A	–	3NW1030-0HG	3NW3030-0HG	3NW2030-0HG
4 A	–	3NW1040-0HG	3NW3040-0HG	3NW2040-0HG
5 A	–	3NW1050-0HG	3NW3050-0HG	3NW2050-0HG
6 A	–	3NW1060-0HG	3NW3060-0HG	3NW2060-0HG
7.5 A	–	3NW1075-0HG	–	–
8 A	–	3NW1080-0HG	3NW3080-0HG	3NW2080-0HG
10 A	–	3NW1100-0HG	3NW3100-0HG	3NW2100-0HG
12 A	–	–	3NW3120-0HG	3NW2120-0HG
15 A	–	3NW1150-0HG	3NW3150-0HG	3NW2150-0HG
20 A	–	3NW1200-0HG	3NW3200-0HG	3NW2200-0HG
25 A	–	3NW1250-0HG	3NW3250-0HG	3NW2250-0HG
30 A	–	3NW1300-0HG	3NW3300-0HG	3NW2300-0HG

Further information



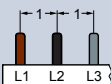
Installation in fuse holders	3NW75.3-0HG, 3NW753.-1HG, 3NW7431-0HG	3NW75.3-0HG, 3NW753.-1HG, 3NW7431-0HG	3NW75.3-0HG, 3NW753.-1HG, 3NW7431-0HG
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¹⁾ American English wording

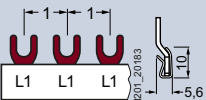
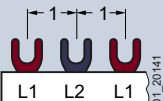
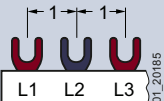
Busbars

According to IEC, can be cut

Pin spacing 1 MW


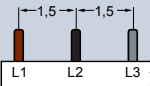
Pin spacing in MW (1 MW = 18 mm)	Application	Length	Version	Conductor cross-section	Article No.
1-phase, angled 	For cylindrical fuse holders 8 × 32 mm and 10 × 38 mm For SITOR cylindrical fuse holders 10 × 38 mm	214 mm	With end caps	16 mm ²	5ST3700
		1016 mm	Without end caps	16 mm ²	5ST3701
2-phase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

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

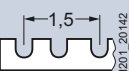
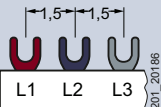
According to IEC, can be cut

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

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

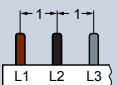
Fork spacing 1.5 MW

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



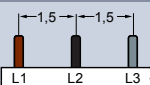
According to UL 508, can be cut

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 		
	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			
	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

7

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

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

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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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The products listed in this catalog may be subject to European/ German and/or US export regulations. Any export requiring approval is therefore subject to authorization by the relevant authorities. Errors excepted and subject to change without prior notice.

Link directory

Catalog LV 10

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LV 10 Low-Voltage Power Distribution and Electrical Installation Technology

SENTRON • SIVACON • ALPHA

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Distribution Systems

PDF (E86060-K8280-A101-B5-7600)



ET D1 Switches and Socket Outlets DELTA

PDF



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

SENTRON

PDF (E86060-K8280-E347-A9-7600)



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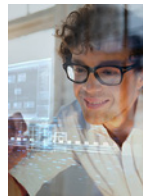
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PDF (E86060-K1010-A101-B3-7600)



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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.

To stay informed about product updates, subscribe to the Siemens Industrial Security RSS Feed under <https://www.siemens.com/cert>.

Subject to changes and errors. The information given in this document only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract.

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