

SIEMENS

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Low-Voltage Power Distribution and Electrical Installation Technology

Fuse Systems

Catalog
Extract
LV 10

Edition
10/2020

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

Making sure power makes its way

Consistent, safe and intelligent low-voltage power distribution and electrical installation technology

Whether industries, infrastructures or buildings: Each environment depends on a reliable power supply.

Which is why products and systems featuring maximum safety and optimum efficiency are in demand. This comprehensive portfolio for low-voltage power distribution and electrical installation technology covers every requirement – from the switchboard to the socket outlet.

We are there when you need us

Your personal contact can be found at
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Catalog LV 10 · 10/2020

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Refer to the Industry Mall for current prices
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The products and systems listed in this catalog are developed and manufactured using a certified quality management system in accordance with DIN EN ISO 9001:2008.

Technical data

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.

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Low-Voltage Power Distribution and Electrical Installation Technology

	Introduction	I/2
Protecting	Air Circuit Breakers	1/1
	Molded Case Circuit Breakers	2/1
	Miniature Circuit Breakers	3/1
	Residual Current Protective Devices / Arc Fault Detection Devices (AFDDs)	4/1
	Switching Devices	5/1
	Overvoltage Protection Devices	6/1
	Fuse Systems	7/1
Protecting, Switching and Isolating	Switch Disconnectors	8/1
Switching and Isolating	Transfer Switching Equipment and Load Transfer Switches	9/1
Measuring and Monitoring	Measuring Devices, Power Monitoring and Digitalization Solutions	10/1
	Monitoring Devices	11/1
Distribution	Transformers, Power Supply Units and Socket Outlets	12/1
	Busbar Systems	13/1
	Terminal Blocks	14/1
	Power Distribution Boards, Motor Control Centers and Distribution Boards	15/1
	Busbar Trunking Systems	16/1
	System Cubicles, System Lighting and System Air-Conditioning	17/1
	Appendix	A/1

I

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

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



All the information you need	7/2
System overview	7/4
Overview of fuse systems	7/6
Fuse holders and bases	7/8
Overview	7/8
MINIZED fuse switch disconnectors	7/12
MINIZED switch disconnectors with fuses	7/13
NEOZED bus-mounting switch disconnectors	7/14
NEOZED fuse bases	7/16
DIAZED fuse bases	7/18
Bus-mounting bases for 8US busbar systems	7/20
Photovoltaic cumulative fuse bases	7/21
LV HRC fuse bases	7/22
Cylindrical fuse holders	7/24
Fuse holders and bases for SITOR semiconductor fuses	7/25
Photovoltaic cylindrical fuse holders	7/26
Class J fuse holders	7/27
Class CC fuse holders	7/28
Fuse links	7/30
Overview of fuse links	7/30
NEOZED fuse links	7/32
DIAZED fuse links	7/33
SILIZED fuse links	7/34
Photovoltaic cumulative fuse links	7/35
LV HRC fuse links	7/36
Cylindrical fuse links	7/41
SITOR semiconductor fuse links (LV HRC design)	7/42
SITOR semiconductor fuses (cylindrical fuse design)	7/59
Photovoltaic cylindrical fuse links	7/64
Class CC fuse links	7/65
Accessories	7/66
Busbars	7/66
LV HRC signal detectors, electronic fuse monitoring	7/70

A multitude of additional information ...

Information + ordering

All the important things at a glance

Information to get you started

For information about fuse systems, please visit our website

www.siemens.com/fuses

Contact persons in your region

We are there when you need us

You can find your local contacts at

www.siemens.com/lowvoltage/contact

Your product in detail

The Siemens Industry Online Support portal 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

Our video range

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 No. in the catalog or by entering this web address incl. Article No.

www.siemens.com/product?Article No.

Configurators

Exactly the right SITOR semiconductor fuse for your application

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

... can be found in our online services

Commissioning + operation

Your product in detail

The Siemens Industry Online Support portal provides detailed technical information

www.siemens.com/lowvoltage/product-support

- Operating instructions
- Characteristic curves
- Certificates

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

www.siemens.com/lowvoltage/cax

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Manuals

Manuals are available for downloading in Siemens Industry Online Support at

www.siemens.com/lowvoltage/manuals

- Configuration manual – Fuse systems (45314810)
- Planning manual – Planning with SIVACON 8PS (109478425)

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 busbarsPhotovoltaic
cumulative fuses

IEC/UL fuse holders and bases



LV HRC fuses

Cylindrical
fusesSITOR 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



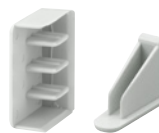
Can be cut



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

Cylindrical
fuses

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 of fuse systems according to IEC

Fuse links



Standard	IEC	IEC
Rated current I_n	2 ... 100 A	2 ... 100 A
Voltage U_n (AC)	400 V	500 ... 750 V
Voltage U_n (DC)	250 V	500 ... 750 V
Design / application	NEOZED / SILIZED	DIAZED / SILIZED

Selection according to protection task

Cables and lines, general (gG)	■	■
Motor protection (aM)	–	–
Power semiconductor (aR, gR, gS)	■	■
Photovoltaic protection (gPV)	–	–
Battery protection (aR, gR, gBAT)	–	–

Type	5SE	5SA, 5SB, 5SC, 5SD
More information	See page 7/32 See page 7/34	See page 7/33 See page 7/34

Fuse holders and bases

For protection tasks

Overview, see page 7/1

Fuse bases



Floor fixation	Standard mounting rail	Busbar	Type	Standard	More information
–	■	■	5SG	IEC	See page 7/5
■	■	■	5SF	IEC	See page 7/11
■	–	–	3NH	IEC / UL	See page 7/15
■	–	–	3NH7	IEC	See page 7/15
–	■	■	3NW7	IEC / UL	See page 7/17
–	■	–	3NC...	IEC / UL	See page 7/18
–	■	–	3NW7...-4	IEC	See page 7/19

For protection and switching tasks

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

Fuse switch disconnectors



Floor fixation	Standard mounting rail	Busbar	Type	Standard	More information
■	■	■	3NP1	IEC / UL	See page 8/94
■	–	■	3NP5	IEC / UL	See page 8/98
–	■	■	5SG7	IEC	See page 8/112
–	–	■	3NJ4	IEC	See page 8/102

Switch disconnector with fuse



■	■	–	3KF LV HRC	IEC	See page 8/126
■	■	–	3KF SITOR	IEC / UL	See page 8/126
–	–	■	3NJ62	IEC	See page 8/134

Overview, see page 7/30



IEC

2 ... 1250 A

400 ... 690 V

250 ... 400 V

LV HRC



IEC

0.5 ... 100 A

400 ... 690 V

Cylindrical



IEC/UL

2 ... 2400 A

500 ... 2500 V

440 ... 3000 V

SITOR LV HRC



IEC/UL

1 ... 125 A

600 ... 1500 V

250 ... 1000 V

SITOR cylindrical



IEC

2 ... 630 A

–

1000 ... 1500 V

Photovoltaic



UL

0.5 ... 30 A

600 V

150 ... 300 V

Class CC



3NA, 3ND

See page 7/36

3NW6, 3NW8

See page 7/41

3NE, 3NC

See page 7/42

3NC10

See page 7/59

3NE..., 3NW...

See page 7/35

See page 7/64

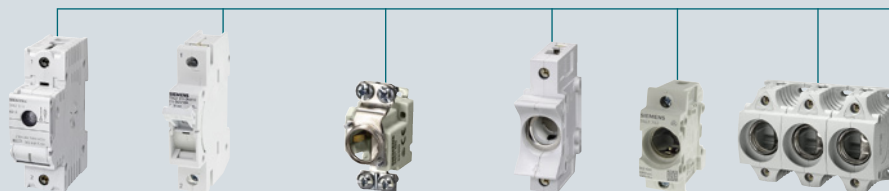
3NW1, 3NW2, 3NW3

See page 7/65



Overview of fuse holders, bases and D0 fuse switching devices

IEC



MINIZED
switch discon-
nectors with
fuses

MINIZED fuse
switch discon-
nectors

NEOZED fuse bases

NEOZED
comfort
bases

NEOZED
fuse bases

DIAZED fuse
bases

Basic data

Size	D02	D01	D01	D02	D03	D01, D02	D01, D02	NDz, DII, DIII
Variant	5SG71	5SG76	5SG15 5SG55	5SG16 5SG56	5SG18	5SG1301 5SG1701 5SG5301 5SG5701	5SG1302 5SG1702 5SG5302 5SG5702	5SF

Standards

Standards	DIN VDE 0638; DIN EN 60947-3 (VDE 0660-107) EC/EN 60947-3	DIN VDE 0638; DIN 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	–	–	–			–	–	–
Approvals	–	–	–			–	–	–

Technical specifications AC

Rated voltage	U_n	V AC	230/400, 240/415	230/400, 240/415	400	400	400	–	–	500, 690, 750
	U_n acc. to UL	V AC	–	–	–	–	–	–	–	–
Rated insulation voltage		V AC	500	690	–	–	–	–	–	–
Short-circuit strength		kA AC	50	50	50	50	50	50	50	50
Rated current	I_n	A	63	16	16	63	100	16/63	16/63	2 ... 100
	I_n acc. to UL/CSA	A	–	–	–	–	–	–	–	–
Rated impulse withstand voltage		kV AC	6	6	–	–	–	–	–	–
Utilization category	Acc. to VDE 0638	A	AC-22	AC-22	–	–	–	–	–	–
	Acc. to EN 60947-3	A	AC-22B, AC-23B (35A)	AC-22A	–	–	–	–	–	–

Technical specifications DC

Rated voltage	U_n	V DC	65 (1P), 130 (2P)	48 (1P), 110 (2P)	250	250	250	–	–	500, 600, 750
	U_n acc. to UL	V DC	–	–	–	–	–	–	–	–
Short-circuit strength		kA DC	–	–	8	8	8	8	8	–
Utilization category	Acc. to EN 60947-3	A	DC-22B	–	–	–	–	–	–	–

Further technical specifications

Overvoltage category			IV	IV	–			–	–	III; II (DIAZED fuse bases made of molded plastic for use at 690 V AC / 600 V DC)
Max. power dissipation of fuse links (conductor cross-section used)	W		–	–	–			–	–	–
Pollution degree			–	–	–			–	–	–

Further information

Catalog LV 10 – 10/2020	See page 7/13	See page 7/12	See page 7/16			See page 7/18			
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¹⁾ Extended rated voltage up to 1000 V (except LV HRC bus-mounting bases).

IEC



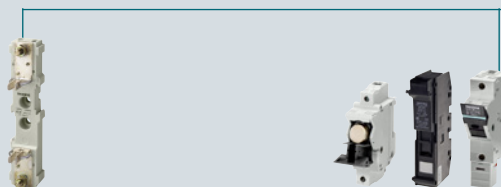
Cylindrical fuse holders

LV HRC fuse bases,
LV HRC bus-mounting basesPhotovoltaic cumulative
fuse basesNEOZED bus-
mounting bases
for 5SG 60 mm
compact busbar
systemsNEOZED
SR60 bus-
mounting
basesDIAZED SR60
bus-mounting bases

8 × 32 mm	22 × 58 mm	000/00	0	1	2	3	4	1	1L	2L	3L	1XL	2XL	D02	D02	DII	DII
3NW73..	3NW72..	–	–	–	–	–	–	3NH7...-4						5SG6208	5SG6202 5SG6206 5SG6207	5SF6014 5SF6015 5SF6020	5SF6214 5SF6215 5SF6220
IEC 60269-1, -2, -3; NF C 60-200, NF C 63-210, -211; NBN C 63269-2-1; CEI 32-4, -12; UL 4248-1		IEC 60269-1, -2; EN 60269-1; DIN VDE 0636-2, UL 4248-1 (only downstream from the branch protection)						IEC 60269, IEC 60269-2, IEC 60947						IEC 60269-3, DIN VDE 0636-3	IEC 60269-3, DIN VDE 0636-3	IEC 60269-3, DIN VDE 0636-3	IEC 60269-3, DIN VDE 0636-3
UL File number E171267		KEMA; UL file number E171267-IZLT2						–	–	–	–	–	–	–	–	–	–
–	–	–						–	–	–	–	–	–	–	–	–	–
400	690	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾	690	–	–	–	–	–	–	400	400	500	690
–	700	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
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			

Overview of fuse holders, bases and D0 fuse switching devices

IEC / UL



			LV HRC fuse bases, LV HRC bus-mounting bases						Fuse holders for SITOP semiconductor fuses (cylindrical fuse design)			
Basic data												
Size			000/00	0	1	2	3	4	10 × 38 mm	14 × 51 mm	22 × 58 mm	22 × 127 mm
Variant			–	–	–	–	–	–	3NC10	3NC14	3NC22	3NC23
Standards												
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			–
Approvals			–						Ⓢ, Ⓢ	Ⓢ, Ⓢ	Ⓢ, Ⓢ	–
Technical specifications AC												
Rated voltage	U _n	V AC	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾	690	690	690	690	1500
	U _n acc. to UL	V AC	–	–	–	–	–	–	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	1250	32	50	100	63
	I _n acc. to UL/CSA	A	–	–	–	–	–	–	30	50 (UL), 40 (CSA)	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	440	800			1000
	U _n acc. to UL	V DC	–	–	–	–	–	–	–	–	–	–
Short-circuit strength		kA DC	25	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	90	3 (6 mm²), 4.3 (10 mm²)	5 (10 mm²), 6.5 (25 mm²)	9.5 (35 mm²), 11 (50 mm²)	15 (1 ... 50 mm²)
Pollution degree			–	–	–	–	–	–	2	2	2	–
Further information												
Catalog LV 10 – 10/2020			See page 7/22						See page 7/60			

¹⁾ Extended rated voltage up to 1000 V (except LV HRC bus-mounting bases).

IEC / UL



UL



Cylindrical fuse holders

Photovoltaic
cylindrical fuse holdersClass CC
fuse holders

Class J fuse holders

10 x 38 mm	14 x 51 mm	10 x 38 mm	10 x 85 mm	—	—				
3NW70.. 3NW703.-1	3NW71..	3NW70...-4	3NW76...-4	3NW75.3-0HG 3NW753.-1HG	3NW75.3-3HG, 3NW75.3-5HG, 3NW75.3-6HG, 3NW75.3-7HG, 3NW75.3-8HG, 3NW7431-6HG, 3NW7431-7HG, 3NW7431-8HG				
IEC 60269-1, -2, -3; NF C 60-200, NF C 63-210, -211; NBN C 63269-2-1; CEI 32-4, -12; UL 4248-1		IEC 60269, IEC 60269-2, IEC 60947, UL 4248-1, -18	IEC 60269, IEC 60269-2, IEC 60947, UL 4248-1, -18	UL 4248-1; CSA C22.2	UL 4248-1 Ed.1, UL 4248-8 Ed.1				
UL File number E171267		UL (File number E469670, CCC) (variants without signal detector)	UL (E355487)	UL 4248-1; UL File number E171267; CSA C22.2	UL File number E171267; CSA File number 233322; Class number 6225-01				
		—	—	—					Busbar device:
690	690	—	—	—	—	—	—	—	—
600	700	—	—	600	600	600	600	600	600
—	—	—	—	—	—	—	—	—	—
100	100	—	—	200	200	200	200	200	200
32	50	30	32	30	30	60	100	200	400
—	—	—	—	—	—	—	—	—	—
—	—	6	—	6	No information as the devices are only tested and certified to UL/CSA and not to IEC				
—	—	—	—	—	—				
AC-20B (switching without load)		—	—	AC-20B (switching without load)	AC-20B (switching without load)				
—	—	1000	1500	300	—	—	—	—	—
—	—	—	—	—	600	600	600	600	600
—	—	—	—	—	—	—	—	—	—
DC-20B (switching without load)		—	—	DC-20B (switching without load)	DC-20B (switching without load)				
—	—	II	—	II	No information as the devices are only tested and certified to UL/CSA and not to IEC				
—	—	4	6	3 (6 mm ²), 4.3 (10 mm ²)	—				
—	—	2	—	2	No information as the devices are only tested and certified to UL/CSA and not to IEC				
See page 7/24		See page 7/28		See page 7/30	See page 7/29				

MINIZED fuse switch disconnectors

Number of poles		1P	1P+N	2P	3P	3P+N
						
Size	Rated current					
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

MINIZED switch disconnectors with fuses

		Number of poles				
		1P	1P+N	2P	3P	3P+N
						
Size	Rated current					
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

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 contact + 1 NC contact	5ST3010
	2 NO contacts	5ST3011
	2 NC contacts	5ST3012
Auxiliary switches (AS) with TEST button		
	Version	Article No.
	1 NO contact + 1 NC contact	5ST3010-2
	2 NO contacts	5ST3011-2
	2 NC contacts	5ST3012-2

NEOZED bus-mounting switch disconnectors

For 8US 60 mm busbar systems

						Mounting width	Size D02		
							1.5 MW	1.5 MW	1.5 MW
									
For flat copper profiles	Rated current I_e		Rated voltage U_e		Standard		Without LED signal detector		With LED signal detector
	IEC	UL 508	IEC AC	IEC DC	UL 508				
Box terminals									
5 mm and 10 mm	63 A	–	400 V AC	–	–	IEC	5SG7234-1 ²⁾	–	5SG7234-2 ²⁾
			400 V AC	110 V DC	–	IEC	–	5SG7230 ¹⁾	–

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

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

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

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

NEOZED fuse bases

	Number of poles	Comfort bases made of molded plastic		Fuse bases made of molded plastic		
		1P	3P	Without LED signal detector	With LED signal detector	With LED signal detector
						
Size	Rated current					
D01	16 A	5SG1301	5SG5301	5SG1302	5SG5302	5SG1302-1
D02	63 A	5SG1701	5SG5701	5SG1702	5SG5702	5SG1702-1
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
			D01	5SH4317
		With inspection hole	D01	5SH4317
			D02	5SH4362

NEOZED adapter sleeves

	Fuse size	Rated current	Color	Article No.
	D01	2 A	Pink	5SH5002
		4 A	Brown	5SH5004
		6 A	Green	5SH5006
		10/13 A	Red	5SH5010
		16 A	Gray	5SH5416
	D01 fuse links in D02 base and 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
	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

Fuse bases made of ceramic						
With clamp-type terminal			With saddle terminal		With screw head contact	
3P	1P	3P	1P	3P	1P	3P
						
5SG5302-1	5SG1553	5SG5553	—	—	—	—
5SG5702-1	—	—	5SG1653	5SG5653	5SG1693	5SG5693
—	—	—	—	—	5SG1812	—

NEOZED covers



Fuse size
D03

Article No.
5SH5233

NEOZED adapter sleeve fitters



Article No.
5SH5100

NEOZED retaining springs



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

Article No.
5SH5400

DIAZED fuse bases

		Fuse bases made of molded plastic		Fuse bases made of ceramic	
		With box terminal		With clamp-type terminal	With saddle terminal
	Number of poles	1P	3P	1P	1P
					
Size	Rated current	U _n AC/DC 500/500 V	U _n AC/DC 500/500 V	U _n AC/DC 500/500 V	U _n AC/DC 500/500 V
DII	25 A	5SF1060	5SF5068	5SF1005	—
DIII	63 A	5SF1260 ¹⁾	5SF5268 ¹⁾	—	5SF1205 ¹⁾

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

Accessories

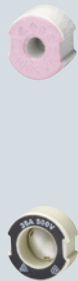
DIAZED screw caps



Material	Version	Fuse size	Rated voltage AC / DC	Article No.
Molded plastic	With inspection hole	NDz	500/500 V	5SH1112
		DII	500/500 V	5SH1221
		DIII	500/500 V	5SH1231
Ceramic	Without inspection hole	DII	500/500 V	5SH112
		DIII	500/500 V	5SH113
	With inspection hole, sealable	DII	500/500 V	5SH122
		DIII	500/500 V	5SH123
	Extended version	DIII	690/600 V	5SH1170
	With fine thread	DIII	750/750 V	5SH1161

DIAZED screw adapters

- Also for 5SF230 up to 750 V



Fuse size	Rated current	Article No.
DII	2 A	5SH310
	4 A	5SH311
	6 A	5SH312
	10 A	5SH313
	16 A	5SH314
	20 A	5SH315
	25 A	5SH316
DIII	32 A	5SH327
	35 A	5SH317
	50 A	5SH318
	63 A	5SH320

With screw head contact

1P


 U_n AC/DC
750/750 V

—

5SF4230

DIAZED adapter sleeves for screw caps



Use

For DII fuse links in DIII base

Article No.

5SH302

DIAZED adapter sleeve fitters



Use

For DII/DIII screw adapters

Article No.

5SH3703

DIAZED cover rings



Fuse size

Material

Article No.

DII

Molded plastic

5SH3401

DIII

Molded plastic

5SH3411

DIAZED caps



Fuse size

Material

Article No.

DII

Molded plastic

5SH202

DIII

Molded plastic

5SH222

Bus-mounting bases

For 8US busbar systems

				Compact busbar systems	60 mm busbar systems			
				NEOZED design	NEOZED design		DIAZED design	
Number of poles				3P	3P		3P	
								
Size	I _n	Mounting width	U _n AC/DC	With touch protection	Standard	With touch protection	Standard	With touch protection
D02	63 A	1.5 MW	500/500 V	–	5SG6202	5SG6206	–	–
		2 MW		5SG6208	–	5SG6207	–	–
DII	25 A		500/500 V	–	–	–	5SF6015	5SF6020
DIII	63 A		500/500 V ¹⁾	–	–	–	5SF6215	5SF6220

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

Accessories

Covers for 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

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

Photovoltaic cumulative fuse bases

With flat terminals, ceramic	With swiveling mechanism	With swiveling mechanism and microswitch for tripped signaling
		

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

Accessories

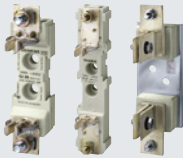
Terminal covers for PV fuse bases with swiveling mechanism



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

7

LV HRC fuse bases

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

¹⁾ No longer to be used for new installations!

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.
	When using fuse links with non-insulated grip lugs	3NX3116

		Molded plastic	With swivel device
3P		1P	1P
			
Flat terminals	Saddle-type terminal	Flat terminals	Flat terminals
3NH4030	3NH4032	3NH3051	–
–	–	–	–
3NH4230	–	–	–
–	–	–	–
–	–	–	–
–	–	–	–
–	–	–	3NH7520

7

Covers for LV HRC fuse bases



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

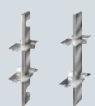
Size	Article No.
000/00	3NX1003
1, 2, 3	3NX1004

Fuse pullers for LV HRC fuse links



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

Isolating blades for LV HRC fuse bases and fuse switch disconnectors



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

Cylindrical fuse holders

Number of poles

1P



1P+N



2P



3P



3P+N



Size	Rated current	Standard	Bus-mounting fuse holders	Standard	Standard	Standard	Compact	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

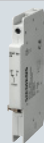
Note:

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

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

Fuse holders and bases for SITOR semiconductor fuses

For SITOR fuses with bolt-on links or blade contacts



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

7

For cylindrical fuses

Cylindrical fuse holders, can be used as fuse switch disconnectors

Number of poles

1P



2P



3P



Size	Rated voltage AC / DC	Signaling switch			
		Without	With		
10 × 38 mm	600/– V	–	–	–	–
	690/800 V	3NC1091	–	3NC1092	3NC1093
14 × 51 mm	690/800 V	3NC1491	3NC1491-5	3NC1492	3NC1493
22 × 58 mm	690/800 V	3NC2291	3NC2291-5	3NC2292	3NC2293
22 × 127 mm	1500/1000 V	3NC2391-OMK	–	3NC2392-OMK	3NC2393-OMK

Note:

Please comply with the maximum permissible current-carrying capacity.

Accessories

Fuse tongs



For sizes

10 × 38 mm
14 × 51 mm
22 × 58 mm

Article No.

3NC1000

Photovoltaic cylindrical fuse holders

		Without signal detector			With signal detector	
Number of poles		1P	1P	2P	1P	2P
						
Size	Rated current	U _n DC 1000 V	U _n DC 1500 V	U _n DC 1000 V	U _n DC 1000 V	U _n DC 1000 V
10 × 38 mm	30 A	3NW7013-4	–	3NW7023-4	3NW7014-4	3NW7024-4
10 × 85 mm	32 A	–	3NW7613-4	–	–	–

Class J fuse holders

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

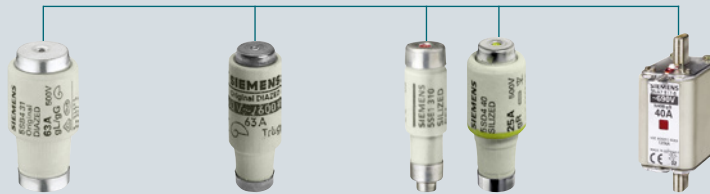
Class CC fuse holders

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

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

Overview of fuse links

IEC



NEOZED fuse links

DIAZED fuse links

SILIZED fuse links

LV HRC fuse links

Basic data

Design	NEOZED	DIAZED	NEOZED, DIAZED	LV HRC
Size	D01, D02, D03	NDz, DII, DIII	D01, D02, DII, DIII, DIV	000/00, 0, 1, 2, 3, 4, 4a
Operational class	gG	gG	gR	gG, aM
Rated current	A	2 ... 100	10 ... 100	2 ... 1250
Standards				
Standard	IEC 60269-3 DIN VDE 0636-3	IEC 60269-3 DIN VDE 0635 DIN VDE 0636-3 CEE 16	IEC 60269-3 / -4 DIN VDE 0636-3 EN 60269-4 (VDE 0636-4)	IEC 60269-1 / -2 EN 60269-1 DIN VDE 0636
Approvals	—	—	—	CSA 22.2

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

Catalog LV 10 – 10/2020	See page 7/4	See page 7/4	See page 7/5	Page 7/7
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IEC			IEC/UL		UL
					
Cylindrical fuse links	Photovoltaic cylindrical fuse links	Photovoltaic cumulative fuse links	SITOR LV HRC semiconductor fuse links	SITOR cylindrical semiconductor fuse links	Class CC fuse links
Cylindrical 8 × 32 mm, 10 × 38 mm, 14 × 51 mm, 22 × 58 mm	Cylindrical 10 × 38 mm, 10 × 85 mm	LV HRC 1, 1L, 2L, 3L, 1XL, 2XL	LV HRC 000, 00, 1, 2, 3	Cylindrical 10 × 38 mm, 14 × 51 mm, 22 × 58 mm	Cylindrical –
gG, aM	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 CEI 32-4/-12 UL 4248-1; CSA	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	–	–	–
Page 7/12	Page 7/35	Page 7/6	Page 7/13	Page 7/30	Page 7/36

NEOZED fuse links

Operational class gG

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

DIAZED fuse links

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

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

SILIZED fuse links

Operational class gR

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

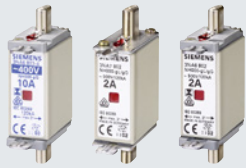
Photovoltaic cumulative fuse links

Operational class gPV

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

LV HRC fuse links

Operational class gG, with combination alarm

Mounting width	Size 000			Size 00			Size 1		
	21 mm			30 mm			30 mm		
									

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

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

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

LV HRC fuse links

Operational class gG, with front indicator

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

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

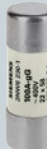
LV HRC fuse links

Operational class aM, with front indicator

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

Cylindrical fuse links

Operational class gG

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

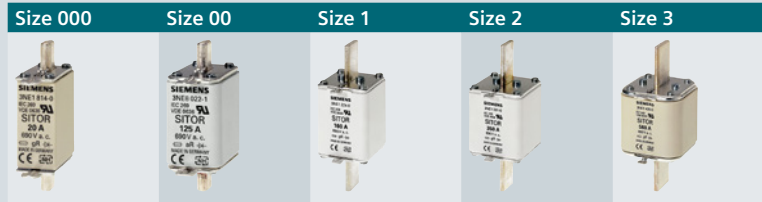
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Operational class aM

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

SITOR semiconductor fuse links (LV HRC design)

Operational class gS, with blade contacts without slots



I_n	Operating value I^2t	Power loss P_v	Varying load factor WL	U_n AC/DC 690/- V ¹⁾	U_n AC/DC 690/- V ¹⁾	U_n AC/DC 690/- V ¹⁾	U_n AC/DC 690/- V ¹⁾	U_n AC/DC 690/- V ¹⁾
16 A	200 A ² s	4 W	1.0	3NE1813-0	—	—	—	—
20 A	430 A ² s	5 W	1.0	3NE1814-0	—	—	—	—
25 A	780 A ² s	5 W	1.0	3NE1815-0	—	—	—	—
35 A	1700 A ² s	3.5 W	1.0	3NE1803-0	—	—	—	—
40 A	3000 A ² s	3 W	1.0	3NE1802-0	—	—	—	—
50 A	4400 A ² s	6 W	1.0	3NE1817-0	—	—	—	—
63 A	9000 A ² s	7 W	1.0	3NE1818-0	—	—	—	—
80 A	18000 A ² s	8 W	1.0	3NE1820-0	—	—	—	—
100 A	33000 A ² s	10 W	1.0	—	3NE1021-0	—	—	—
125 A	63000 A ² s	11 W	1.0	—	3NE1022-0	—	—	—
160 A	60000 A ² s	24 W	1.0	—	—	3NE1224-0	—	—
200 A	100000 A ² s	27 W	1.0	—	—	3NE1225-0	—	—
250 A	200000 A ² s	30 W	1.0	—	—	3NE1227-0	—	—
315 A	310000 A ² s	38 W	1.0	—	—	3NE1230-0	—	—
350 A	430000 A ² s	42 W	1.0	—	—	—	3NE1331-0	—
400 A	590000 A ² s	45 W	1.0	—	—	—	3NE1332-0	—
450 A	750000 A ² s	53 W	1.0	—	—	—	3NE1333-0	—
500 A	950000 A ² s	56 W	1.0	—	—	—	3NE1334-0	—
560 A	1700000 A ² s	50 W	1.0	—	—	—	—	3NE1435-0
630 A	2350000 A ² s	55 W	1.0	—	—	—	—	3NE1436-0
710 A	3400000 A ² s	58 W	1.0	—	—	—	—	3NE1437-0
800 A	5000000 A ² s	58 W	1.0	—	—	—	—	3NE1438-0

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	Operating value I^2t	Power loss P_v	Varying load factor WL	U_n AC/DC 690/700 V	U_n AC/DC 690/440 V
20 A	83 A ² s	7 W	0.9	3NE8714-1	—
25 A	140 A ² s	9 W	0.9	3NE8715-1	—
32 A	285 A ² s	10 W	0.9	3NE8701-1	—
40 A	490 A ² s	12 W	0.9	3NE8702-1	—
50 A	815 A ² s	15 W	0.9	3NE8717-1	—
80 A	3200 A ² s	23 W	On req.	—	3NE8020-3MK
100 A	5200 A ² s	29 W	On req.	—	3NE8021-3MK
Further information					
Catalog LV 10 – 10/2020				For further currents for operational class aR, see page 7/19	For further currents for operational class aR, see page 7/19

SITOR semiconductor fuse links (LV HRC design)

Operational class gR, with blade contacts without slots

Size 000



Size 00



Size 0



I_n	Operating value I^2t	Power loss P_v	Varying load factor WL	U_n AC/DC 690/400 V	U_n AC/DC 690 V ¹⁾	U_n AC/DC 1000 V ¹⁾
6 A	37 A ² s	2.7 W	On req.	3NE8810-OMK	—	—
10 A	50 A ² s	4.5 W	On req.	3NE8812-OMK	—	—
16 A	73 A ² s	6.7 W	On req.	3NE8813-OMK	—	—
20 A	90 A ² s	8 W	On req.	3NE8814-OMK	—	—
25 A	150 A ² s	8.1 W	On req.	3NE8815-OMK	—	—
	180 A ² s	7 W	0.95	—	3NE8015-1	—
32 A	280 A ² s	12 W	0.9	—	—	3NE4101
	350 A ² s	10.5 W	On req.	3NE8801-OMK	—	—
35 A	400 A ² s	9 W	0.95	—	3NE8003-1	—
40 A	480 A ² s	12 W	On req.	3NE8802-OMK	—	—
	500 A ² s	13 W	0.9	—	—	3NE4102
50 A	700 A ² s	14 W	0.90	—	3NE8017-1	—
	800 A ² s	16 W	0.9	—	—	3NE4117
	1050 A ² s	14.5 W	On req.	3NE8817-OMK	—	—
63 A	1400 A ² s	16 W	0.95	—	3NE8018-1	—
	1960 A ² s	23 W	On req.	3NE8818-OMK	—	—
80 A	5800 A ² s	10.5 W	1.0	—	3NE1020-2	—
100 A	11000 A ² s	12 W	1.0	—	3NE1021-2	—
125 A	23000 A ² s	13.5 W	1.0	—	3NE1022-2	—
160 A	18600 A ² s	32 W	1.0	—	—	—
200 A	51800 A ² s	35 W	1.0	—	—	—
250 A	80900 A ² s	37 W	1.0	—	—	—
315 A	168000 A ² s	40 W	1.0	—	—	—
350 A	177000 A ² s	43 W	1.0	—	—	—
400 A	224000 A ² s	50 W	1.0	—	—	—
450 A	276500 A ² s	58 W	1.0	—	—	—
500 A	398000 A ² s	64 W	1.0	—	—	—
560 A	890000 A ² s	60 W	1.0	—	—	—
630 A	1390000 A ² s	60 W	1.0	—	—	—
670 A	1640000 A ² s	64 W	1.0	—	—	—
710 A	1818000 A ² s	72 W	1.0	—	—	—
	2460000 A ² s	65 W	1.0	—	—	—
800 A	2475000 A ² s	84 W	1.0	—	—	—
	3350000 A ² s	72 W	1.0	—	—	—
850 A	3640000 A ² s	76 W	1.0	—	—	—
Further information						
Catalog LV 10 – 10/2020				For further currents for operational class aR, see page 7/20	—	For further currents for operational class aR, see page 7/20

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 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	Operating value I ² t	Power loss P _v	Varying load factor WL	U _n AC/DC 500 V ¹⁾		U _n AC/DC 690 V ¹⁾	
					690 V ¹⁾	690 V ¹⁾	1000/600 V
32 A	4500 A ² s	9 W	On req.	—	—	—	3NE3201-OMK
40 A	900 A ² s	26 W	On req.	—	—	—	—
	6000 A ² s	13 W	On req.	—	—	—	3NE3202-OMK
50 A	1800 A ² s	27 W	On req.	—	—	—	—
	8000 A ² s	18 W	On req.	—	—	—	3NE3217-OMK
63 A	3100 A ² s	34 W	On req.	—	—	—	—
	9000 A ² s	25 W	On req.	—	—	—	3NE3218-OMK
150 A	17600 A ² s	40 W	0.85	—	3NC8423-0C	—	—
	33000 A ² s	35 W	0.85	3NC2423-0C	—	—	—
160 A	18600 A ² s	32 W	1.0	—	—	3NE1224-3	—
200 A	38400 A ² s	55 W	0.85	—	3NC8425-0C	—	—
	51800 A ² s	35 W	1.0	—	—	3NE1225-3	—
	64000 A ² s	40 W	0.85	3NC2425-0C	—	—	—
250 A	70400 A ² s	72 W	0.85	—	3NC8427-0C	—	—
	80900 A ² s	37 W	1.0	—	—	3NE1227-3	—
	99000 A ² s	50 W	0.85	3NC2427-0C	—	—	—
300 A	132000 A ² s	65 W	0.85	3NC2428-0C	—	—	—
315 A	168000 A ² s	40 W	1.0	—	—	3NE1230-3	—
350 A	176000 A ² s	95 W	0.85	—	3NC8431-0C	—	—
	177000 A ² s	43 W	1.0	—	—	—	—
	249000 A ² s	60 W	0.85	3NC2431-0C	—	—	—
400 A	224000 A ² s	50 W	1.0	—	—	—	—
450 A	276500 A ² s	58 W	1.0	—	—	—	—
500 A	398000 A ² s	64 W	1.0	—	—	—	—
	448000 A ² s	130 W	0.85	—	3NC8434-0C	—	—
560 A	890000 A ² s	60 W	1.0	—	—	—	—
630 A	1390000 A ² s	60 W	1.0	—	—	—	—
670 A	1640000 A ² s	64 W	1.0	—	—	—	—
710 A	1818000 A ² s	72 W	1.0	—	—	—	—
800 A	2475000 A ² s	84 W	1.0	—	—	—	—
850 A	3640000 A ² s	76 W	1.0	—	—	—	—
1000 A	1400000 A ² s	138 W	1.0	—	—	—	—
1100 A	3000000 A ² s	110 W	1.0	—	—	—	—
1250 A	4100000 A ² s	104 W	1.0	—	—	—	—
1350 A	4800000 A ² s	126 W	1.0	—	—	—	—
1400 A	5200000 A ² s	127 W	1.0	—	—	—	—
1600 A	6900000 A ² s	152 W	1.0	—	—	—	—
1700 A	6400000 A ² s	179 W	1.0	—	—	—	—
1700 A	10000000 A ² s	143 W	1.0	—	—	—	—
1900 A	8200000 A ² s	196 W	1.0	—	—	—	—

Further information

Catalog LV 10 – 10/2020

For further currents
for operational class
aR, see page 7/23

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

²⁾ Minimum clearance 90 mm

Size 2		Size 3		Size 3	Size 2 × 3	Size 3 × 3
M10, 110 (90) mm		M10, 170 mm		M12, 110 mm	M12, 110 mm ²⁾	M12, 110 mm ²⁾
						
U _n AC/DC 690 V ¹⁾		U _n AC/DC 1500/1000 V		U _n AC/DC 500 V ¹⁾	U _n AC/DC 690 V ¹⁾	U _n AC/DC 690 V ¹⁾
—	—	—	—	—	—	—
—	3NE5302-0MK06	—	—	—	—	—
—	—	—	—	—	—	—
—	3NE5317-0MK06	—	—	—	—	—
—	—	—	—	—	—	—
—	3NE5318-0MK06	—	—	—	—	—
—	—	—	—	—	—	—
—	—	—	3NC8423-3C	—	—	—
—	—	3NC2423-3C	—	—	—	—
—	—	—	—	—	—	—
—	—	—	3NC8425-3C	—	—	—
—	—	—	—	—	—	—
—	—	3NC2425-3C	—	—	—	—
—	—	—	3NC8427-3C	—	—	—
—	—	—	—	—	—	—
—	—	3NC2427-3C	—	—	—	—
—	—	3NC2428-3C	—	—	—	—
—	—	—	—	—	—	—
—	—	—	3NC8431-3C	—	—	—
3NE1331-3	—	—	—	—	—	—
—	—	3NC2431-3C	—	—	—	—
3NE1332-3	—	—	—	—	—	—
3NE1333-3	—	—	—	—	—	—
3NE1334-3	—	—	—	—	—	—
—	—	—	3NC8434-3C	—	—	—
—	—	—	—	3NE1435-3	—	—
—	—	—	—	3NE1436-3	—	—
—	—	—	—	3NE1447-3	—	—
—	—	—	—	3NE1437-3	—	—
—	—	—	—	3NE1438-3	—	—
—	—	—	—	3NE1448-3	—	—
—	—	—	—	—	3NB3350-1KK26	—
—	—	—	—	—	3NB3351-1KK26	—
—	—	—	—	—	3NB3352-1KK26	—
—	—	—	—	—	3NB3354-1KK26	—
—	—	—	—	—	3NB3355-1KK26	—
—	—	—	—	—	3NB3357-1KK26	—
—	—	—	—	—	—	3NB3358-1KK27
—	—	—	—	—	3NB3358-1KK26	—
—	—	—	—	—	—	3NB3362-1KK27
—	—	For further currents for operational class aR, see page 7/23	For further currents for operational class aR, see page 7/23	For further currents for operational class aR, see page 7/23	—	—

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	Operating value I^2t	Power loss P_v	Varying load factor WL	U_n AC/DC 690/700 V	U_n AC/DC 690/440 V
63 A	1550 A ² s	16 W	0.95	3NE8718-1	—
80 A	2700 A ² s	18 W	0.9	3NE8720-1	—
100 A	4950 A ² s	19 W	0.95	3NE8721-1	—
125 A	9100 A ² s	23 W	0.95	3NE8722-1	—
160 A	17000 A ² s	31 W	0.9	3NE8724-1	—
200 A	30000 A ² s	36 W	0.9	3NE8725-1	—
250 A	55000 A ² s	42 W	0.9	3NE8727-1	—
315 A	85500 A ² s	54 W	0.85	3NE8731-1	—
350 A	135000 A ² s	58.8 W	On req.	—	3NE8031-3MK
400 A	170000 A ² s	74.5 W	On req.	—	3NE8032-3MK

Further information

Catalog LV 10 – 10/2020

For further currents
for operational class gR, see page 7/14

For further currents
for operational class gR, see page 7/14

Operational class aR, with blade contacts without slots

				Size 000		Size 00		Size 0		Size 1		Size 2	
													
I _n	Operating value I ² t	Power loss P _v	Varying load factor WL	U _n AC/DC 500/440 V	690/440 V	U _n AC/DC 690 V ¹⁾	U _n AC/DC 1000 V ¹⁾	U _n AC/DC 690/440 V	U _n AC/DC 690/440 V				
63 A	1500 A ² s	20 W	0.9	—	—	—	3NE4118	—	—				
80 A	2200 A ² s	23.3 W	On req.	—	3NE8820-OMK	—	—	—	—				
	2400 A ² s	19 W	0.95	—	—	3NE8020-1	—	—	—				
	3000 A ² s	22 W	0.9	—	—	—	3NE4120	—	—				
100 A	3650 A ² s	27 W	On req.	—	3NE8821-OMK	—	—	—	—				
	4200 A ² s	22 W	0.95	—	—	3NE8021-1	—	—	—				
	6000 A ² s	24 W	0.9	—	—	—	3NE4121	—	—				
	6050 A ² s	25.5 W	On req.	—	—	—	—	3NE8221-OMK	—				
125 A	6500 A ² s	28 W	0.95	—	—	3NE8022-1	—	—	—				
	7800 A ² s	30 W	On req.	—	3NE8822-OMK	—	—	—	—				
	8900 A ² s	28.5 W	On req.	—	—	—	—	3NE8222-OMK	—				
	14000 A ² s	30 W	0.9	—	—	—	3NE4122	—	—				
160 A	13000 A ² s	38 W	0.95	—	—	3NE8024-1	—	—	—				
	14000 A ² s	34 W	On req.	3NE8824-OMK	—	—	—	—	—				
	16200 A ² s	37 W	On req.	—	—	—	—	3NE8224-OMK	—				
	29000 A ² s	35 W	0.9	—	—	—	3NE4124	—	—				
200 A	26000 A ² s	49 W	On req.	—	—	—	—	3NE8225-OMK	—				
250 A	59000 A ² s	52 W	On req.	—	—	—	—	3NE8227-OMK	—				
315 A	120000 A ² s	68 W	On req.	—	—	—	—	3NE8230-OMK	—				
350 A	83500 A ² s	68.6 W	On req.	—	—	—	—	—	3NE8331-OMK				
400 A	136000 A ² s	72.8 W	On req.	—	—	—	—	—	3NE8332-OMK				
450 A	207000 A ² s	80.1 W	On req.	—	—	—	—	—	3NE8333-OMK				
500 A	318000 A ² s	77.5 W	On req.	—	—	—	—	—	3NE8334-OMK				
550 A	399000 A ² s	86.4 W	On req.	—	—	—	—	—	3NE8335-OMK				
630 A	740000 A ² s	90.7 W	On req.	—	—	—	—	—	3NE8336-OMK				
Further information													
Catalog LV 10 – 10/2020				For further currents for operational class gR, see page 7/15		—	For further currents for operational class qR, see page 7/15	—	—				

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

Screw fixing, mounting dimension

With 2 oblong slots

Size 3

M10, 110 mm



With oblong and transverse slots

Size 1

M8, 80 mm



M10, 110 mm



I_n	Operating value I^2t	Power loss P_v	Varying load factor WL	U_n AC/DC 500 V ¹⁾	U_n AC/DC 690/440 V	U_n AC/DC 1000/- V ¹⁾	1000/600 V
80 A	3900 A ² s	42 W	On req.	—	—	—	—
100 A	3200 A ² s	25 W	On req.	—	3NE8221-3MK	—	—
	4800 A ² s	28 W	0.95	—	—	3NE3221	—
	8700 A ² s	45 W	On req.	—	—	—	—
125 A	6000 A ² s	28 W	On req.	—	3NE8222-3MK	—	—
	7200 A ² s	36 W	0.95	—	—	3NE3222	—
	11800 A ² s	59 W	On req.	—	—	—	—
160 A	10500 A ² s	35 W	On req.	—	3NE8224-3MK	—	—
	13000 A ² s	42 W	1.0	—	—	3NE3224	—
	37000 A ² s	54 W	On req.	—	—	—	—
200 A	17500 A ² s	42 W	On req.	—	3NE8225-3MK	—	—
	30000 A ² s	42 W	1.0	—	—	3NE3225	—
	70000 A ² s	56 W	On req.	—	—	—	—
250 A	28500 A ² s	53.5 W	On req.	—	3NE8227-3MK	—	—
	29700 A ² s	105 W	0.85	—	—	—	—
	48000 A ² s	50 W	1.0	—	—	3NE3227	—
	165000 A ² s	59 W	On req.	—	—	—	—
315 A	53500 A ² s	61 W	On req.	—	3NE8230-3MK	—	—
	60700 A ² s	120 W	0.85	—	—	—	—
	80000 A ² s	60 W	0.95	—	—	3NE3230-0B	—
	250000 A ² s	76 W	On req.	—	—	—	—
	300000 A ² s	245 W	On req.	—	—	—	—
350 A	66000 A ² s	69 W	On req.	—	3NE8231-3MK	—	—
	100000 A ² s	75 W	0.95	—	—	3NE3231	—
400 A	110000 A ² s	70.5 W	On req.	—	3NE8232-3MK	—	—
	135000 A ² s	80 W	1.0	—	—	—	—
	—	85 W	0.9	—	—	3NE3232-0B	—
	390000 A ² s	50 W	0.85	3NC2432-0C	—	—	—
450 A	470000 A ² s	89 W	On req.	—	—	—	—
	175000 A ² s	90 W	1.0	—	—	—	—
	—	95 W	0.9	—	—	3NE3233	—
	180000 A ² s	71 W	On req.	—	3NE8233-3MK	—	—
500 A	191000 A ² s	140 W	0.85	—	—	—	—
	215000 A ² s	84 W	On req.	—	3NE8234-3MK	—	—
	260000 A ² s	90 W	1.0	—	—	—	—
	276000 A ² s	155 W	0.85	—	—	—	—
	500000 A ² s	105 W	On req.	—	—	—	3NE3234-0MK08
550 A	800000 A ² s	109 W	On req.	—	—	—	—
	290000 A ² s	87 W	On req.	—	3NE8235-3MK	—	—
	700000 A ² s	110 W	On req.	—	—	—	3NE3235-0MK08
560 A	360000 A ² s	95 W	1.0	—	—	—	—
630 A	440000 A ² s	96 W	On req.	—	3NE8236-3MK	—	—
	600000 A ² s	100 W	1.0	—	—	—	—
	850000 A ² s	127 W	On req.	—	—	—	3NE3236-0MK08
	1100000 A ² s	163 W	On req.	—	—	—	—
710 A	800000 A ² s	105 W	1.0	—	—	—	—
	923000 A ² s	155 W	0.95	—	—	—	—
800 A	850000 A ² s	130 W	0.95	—	—	—	—
900 A	920000 A ² s	165 W	0.95	—	—	—	—

Further information

Catalog LV 10 – 10/2020

For further currents for
operational class gR,
see page 7/17

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

Size 2

M10, 110 mm



M10, 170 mm



M10, 190 mm



M12, 260 mm

U_n AC/DC
690/- V¹⁾800/- V¹⁾800 V¹⁾900/- V¹⁾1000/- V¹⁾U_n AC/DC
1500/1000 VU_n AC/DC
1500/1000 VU_n AC/DC
-/3000 V

-	-	-	-	-	3NE5320-0MK06	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	3NE5321-0MK06	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	3NE5322-0MK06	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	3NE5324-0MK06	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	3NE5325-0MK06	-	-
-	-	-	-	-	-	-	-
-	-	3NE4327-0B	-	-	-	-	-
-	-	-	-	-	3NE5327-0MK06	-	-
-	-	-	-	-	-	-	-
-	-	3NE4330-0B	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	3NE5330-0MK06	-	-
-	-	-	-	-	-	-	3NE9330-0MK07
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	3NE3332-0B	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	3NE5332-0MK06	-	-
-	-	-	-	3NE3333	-	-	-
-	-	-	-	-	-	-	-
-	-	3NE4333-0B	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	3NE3334-0B	-	-	-
-	-	3NE4334-0B	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	3NE5334-0MK06	-	-
-	-	-	-	-	-	-	-
-	-	-	-	3NE3335	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	3NE3336	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	3NE5336-0MK06	3NE5336-0MK66	-
-	-	-	3NE3337-8	-	-	-	-
-	-	3NE4337	-	-	-	-	-
-	3NE3338-8	-	-	-	-	-	-
3NE3340-8	-	-	-	-	-	-	-

For further currents
for operational class
gR, see page 7/17

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	Operating value I^2t	Power loss P_v	Varying load factor WL	U_n AC/DC 500 V ¹⁾	600 V ¹⁾	U_n AC/DC 1000 V ¹⁾	U_n AC/DC 1500 V ¹⁾	U_n AC/DC 1500 V ¹⁾	2000 V ¹⁾
100 A	13500 A ² s	25 W	1.0	—	—	3NE3421-OC	—	—	—
125 A	34500 A ² s	78 W	1.0	—	—	—	—	—	—
160 A	54000 A ² s	56 W	1.0	—	—	—	—	3NE5424-OC	—
200 A	138000 A ² s	75 W	1.0	—	—	—	—	—	3NE7425-OU
224 A	54000 A ² s	85 W	1.0	—	—	3NE3626-OC	—	—	—
	138000 A ² s	80 W	1.0	—	—	—	—	3NE5426-OC	—
250 A	84000 A ² s	130 W	1.0	—	—	—	3NE5627-OC	—	—
	218000 A ² s	110 W	1.0	—	—	—	—	—	3NE7427-OU
315 A	72500 A ² s	80 W	0.95	—	—	—	—	—	—
	218000 A ² s	80 W	1.0	—	—	3NE3430-OC	—	—	—
	311000 A ² s	115 W	1.0	—	—	—	—	3NE5430-OC	—
350 A	428000 A ² s	135 W	1.0	—	—	—	—	3NE5431-OC	—
	555000 A ² s	120 W	1.0	—	—	—	—	—	3NE7431-OU
400 A	163000 A ² s	95 W	0.95	—	—	—	—	—	—
	364000 A ² s	110 W	1.0	—	—	3NE3432-OC	—	—	—
	390000 A ² s	50 W	0.85	3NC2432-3C	—	—	—	—	—
	620000 A ² s	205 W	1.0	—	—	—	—	—	—
	870000 A ² s	150 W	1.0	—	—	—	—	—	3NE7432-OU
450 A	488000 A ² s	110 W	1.0	—	—	3NE3635-OC	—	—	—
	590000 A ² s	160 W	1.0	—	—	—	3NE5633-OC	—	—
	870000 A ² s	145 W	0.95	—	—	—	—	3NE5433-OC	—
	960000 A ² s	160 W	1.0	—	—	—	—	—	3NE7633-OU
500 A	290000 A ² s	115 W	0.90	—	—	—	—	—	—
	870000 A ² s	95 W	1.0	—	—	3NE3434-OC	—	—	—
	1270000 A ² s	235 W	1.0	—	—	—	—	—	—
525 A	1120000 A ² s	210 W	1.0	—	—	—	—	—	—
600 A	1950000 A ² s	145 W	1.0	—	—	—	3NE5643-OC	—	—
630 A	244000 A ² s	120 W	0.85	—	—	—	—	—	—
	418000 A ² s	145 W	0.85	—	—	—	—	—	—
	650000 A ² s	120 W	0.95	—	—	—	—	—	—
	1280000 A ² s	132 W	1.0	—	—	3NE3636-OC	—	—	—
	1950000 A ² s	220 W	1.0	—	—	—	—	—	3NE7636-OU
	2800000 A ² s	275 W	1.0	—	—	—	—	—	—
710 A	346000 A ² s	130 W	0.85	—	—	—	—	—	—
	569000 A ² s	150 W	0.85	—	—	—	—	—	—
	1950000 A ² s	145 W	1.0	—	—	3NE3637-OC	—	—	—
	3110000 A ² s	275 W	1.0	—	—	—	—	—	—
800 A	498000 A ² s	135 W	0.9	—	—	—	—	—	—
	819000 A ² s	155 W	0.85	—	—	—	—	—	—
	985000 A ² s	145 W	0.90	—	—	—	—	—	—
900 A	677000 A ² s	145 W	0.9	—	—	—	—	—	—
	1160000 A ² s	165 W	0.9	—	—	—	—	—	—
1000 A	975000 A ² s	155 W	0.95	—	—	—	—	—	—
	1670000 A ² s	170 W	0.9	—	—	—	—	—	—
	2480000 A ² s	140 W	0.85	—	3NC8444-3C	—	—	—	—
1100 A	1382000 A ² s	165 W	0.95	—	—	—	—	—	—
	1910000 A ² s	185 W	0.9	—	—	—	—	—	—
1250 A	1990000 A ² s	175 W	0.95	—	—	—	—	—	—
	2600000 A ² s	210 W	0.9	—	—	—	—	—	—
1400 A	2100000 A ² s	200 W	0.95	—	—	—	—	—	—
1600 A	2860000 A ² s	240 W	0.9	—	—	—	—	—	—

Further information

Catalog LV 10 – 10/2020

For further currents for operational class gR, see page 7/17

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 female thread at both ends

Screw fixing, flange dimension

Size 3

M10, 109 mm



M12, 52 mm



I_n	Operating value I^2t	Power loss P_v	Varying load factor WL	U_n AC/DC 1000/- V	U_n AC/DC 500/- V	690/- V
315 A	72500 A ² s	80 W	0.95	—	—	—
400 A	163000 A ² s	95 W	0.95	—	—	—
450 A	488000 A ² s	110 W	1.0	3NE3635-6	—	—
500 A	290000 A ² s	115 W	0.90	—	—	—
630 A	244000 A ² s	125 W	0.9	—	—	3NC3236-6U
	418000 A ² s	130 W	0.90	—	—	—
	650000 A ² s	120 W	0.95	—	—	—
710 A	346000 A ² s	130 W	0.9	—	—	3NC3237-6U
	569000 A ² s	140 W	0.90	—	—	—
800 A	498000 A ² s	135 W	0.95	—	—	3NC3238-6U
	819000 A ² s	150 W	0.90	—	—	—
	985000 A ² s	145 W	0.95	—	—	—
900 A	677000 A ² s	140 W	0.95	—	—	3NC3240-6U
	1160000 A ² s	160 W	0.95	—	—	—
1000 A	975000 A ² s	145 W	1.0	—	—	3NC3241-6U
	1670000 A ² s	165 W	0.95	—	—	—
1100 A	1382000 A ² s	150 W	1.0	—	—	3NC3242-6U
	1910000 A ² s	175 W	0.95	—	—	—
1250 A	1990000 A ² s	155 W	1.0	—	—	3NC3243-6U
	2600000 A ² s	185 W	0.95	—	—	—
1400 A	2100000 A ² s	175 W	1.0	—	3NC3244-6U	—
1600 A	2860000 A ² s	195 W	0.95	—	3NC3245-6U	—

M12, 73 mm



M12, 73 mm



U _n AC/DC 800/- V	1000/- V	U _n AC/DC 1100/- V	1250/- V
—	—	—	3NC3430-6U
—	—	—	3NC3432-6U
—	—	—	—
—	—	—	3NC3434-6U
—	—	—	—
—	3NC3336-6U	—	—
—	—	—	3NC3436-6U
—	—	—	—
—	3NC3337-6U	—	—
—	—	—	—
—	3NC3338-6U	—	—
—	—	3NC3438-6U	—
—	—	—	—
—	3NC3340-6U	—	—
—	—	—	—
—	3NC3341-6U	—	—
—	—	—	—
3NC3342-6U	—	—	—
—	—	—	—
3NC3343-6U	—	—	—
—	—	—	—
—	—	—	—

SITOR semiconductor fuse links (LV HRC design)

Operational class gR, special designs

	Without installation bracket	With installation bracket For SITOR 6QG11 thyristor sets
Screw fixing, flange dimension	M10, 89 mm	



I_n	Operating value I^2t	Power loss P_v	Varying load factor WL	U_n AC 600 V	U_n AC 1000 V
50 A	1100 A ² s	20 W	0.85	—	3NE4117-5
850 A	2480000 A ² s	85 W	1.0	3NE9440-6	—

7

Operational class aR, special designs

	Without installation bracket For screwing onto water-cooled busbars
Flange dimension	83 mm



I_n	Operating value I^2t	Power loss P_v	Varying load factor WL	U_n AC 600 V	900 V	U_n AC 800 V	1000 V
100 A	7400 A ² s	35 W	0.85	—	—	—	—
170 A	60500 A ² s	43 W	0.85	—	—	—	—
200 A	44000 A ² s	50 W	0.85	—	—	—	—
250 A	29700 A ² s	105 W	0.85	—	—	—	—
	635000 A ² s	25 W	0.9	—	—	—	—
315 A	60700 A ² s	120 W	0.85	—	—	—	—
350 A	260000 A ² s	80 W	0.9	—	—	3NC5531	—
	1430000 A ² s	32 W	0.9	—	—	—	—
450 A	191000 A ² s	140 W	0.85	—	—	—	—
	395000 A ² s	90 W	0.85	—	—	—	—
500 A	276000 A ² s	155 W	0.85	—	—	—	—
600 A	888000 A ² s	150 W	0.9	—	—	—	3NC5840
630 A	888000 A ² s	145 W	0.9	—	—	3NC5841	—
710 A	620000 A ² s	150 W	0.9	—	3NE6437-7	—	—
	923000 A ² s	155 W	0.95	—	—	—	—
800 A	1728000 A ² s	170 W	0.9	—	—	—	3NC5838
900 A	1920000 A ² s	170 W	0.9	—	—	—	—
1250 A	2480000 A ² s	210 W	0.9	3NE9450-7	—	—	—

For air-cooled rectifiers in electrolysis systems		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
89 mm			77 mm		
					
U _n AC 600 V	900 V	U _n AC 680 V	U _n AC 800 V	U _n AC 1000 V	U _n AC 1000 V
–	–	–	–	–	3NE4121-5
–	–	–	–	–	3NE4146-5
–	–	–	–	3NE3525-5	–
–	–	–	3NE4327-6B	–	–
–	–	3NC7327-2	–	–	–
–	–	–	3NE4330-6B	–	–
–	–	–	–	–	–
–	–	3NC7331-2	–	–	–
–	–	–	3NE4333-6B	–	–
–	–	–	–	3NE3535-5	–
–	–	–	3NE4334-6B	–	–
–	–	–	–	–	–
–	–	–	–	–	–
–	3NE6437	–	–	–	–
–	–	–	3NE4337-6	–	–
–	–	–	–	–	–
–	3NE6444	–	–	–	–
3NE9450	–	–	–	–	–

SITOR semiconductor fuse links (LV HRC design)

DC fuses, operational class gR, with slotted blade contacts

Screw fixing **Size 2L**
M12



I_n	Operating value I^2t	Power loss P_v	Varying load factor WL	U_n DC 900 V
400 A	180000 A ² s ¹⁾	75 W	–	3NB1234-3KK20

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

7

DC fuses, operational class aR, with slotted blade contacts

Screw fixing **Size 1L** **Size 2L** **Size 3L** **Size 2 × 3L** **Size 3 × 3L**
M12 M12 M12 M12 M12



I_n	Operating value I^2t at U_{VSI} 1500 V ²⁾	Power loss P_v	Varying load factor WL	U_n DC/ U_{VSI} 1250 V/1500 V	U_n DC/ U_{VSI} 1250 V/1500 V	U_n DC/ U_{VSI} 1250 V/1500 V	U_n DC/ U_{VSI} 1250 V/1500 V	U_n DC/ U_{VSI} 1250 V/1500 V
200 A	39000 A ² s	50 W	–	3NB1126-4KK11	–	–	–	–
250 A	80500 A ² s	51 W	–	3NB1128-4KK11	–	–	–	–
315 A	129000 A ² s	63 W	–	–	3NB1231-4KK11	–	–	–
400 A	290000 A ² s	68 W	–	–	3NB1234-4KK11	–	–	–
500 A	600000 A ² s	89 W	–	–	–	3NB1337-4KK11	–	–
800 A	1910000 A ² s	135 W	–	–	–	3NB1345-4KK11	–	–
800 A	1150000 A ² s	160 W	–	–	–	–	3NB2345-4KK16	–
1000 A	2250000 A ² s	195 W	–	–	–	–	3NB2350-4KK16	–
1400 A	5100000 A ² s	250 W	–	–	–	–	3NB2355-4KK16	–
1600 A	7450000 A ² s	275 W	–	–	–	–	3NB2357-4KK16	–
2100 A	1195000 A ² s	365 W	–	–	–	–	–	3NB2364-4KK17
2400 A	18100000 A ² s	445 W	–	–	–	–	–	3NB2366-4KK17

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	Operating value I^2t	Power loss P_v	U_n AC/DC 1500/1000 V
1 A	2 A ² s	2 W	3NC2301-OMK
2 A	4.4 A ² s	2.5 W	3NC2302-OMK
4 A	55 A ² s	5.3 W	3NC2304-OMK
6 A	150 A ² s	6.4 W	3NC2306-OMK
10 A	540 A ² s	3.1 W	3NC2310-OMK
16 A	1120 A ² s	4.7 W	3NC2316-OMK
20 A	2850 A ² s	5.4 W	3NC2320-OMK
25 A	3300 A ² s	6.9 W	3NC2325-OMK
32 A	9050 A ² s	6.7 W	3NC2332-OMK

Further information

Catalog LV 10 – 10/2020

For further currents
for operational class gR, see page 7/31
Operational class aR, see page 7/33

7

SITOR semiconductor fuse links (cylindrical fuse design)

Operational class gR

Size 10 × 38 mm



Size 14 × 51 mm



I _n	Operating value I _t ²	Power loss P _v	U _n AC/DC 690/440 V		U _n AC/DC 690/700 V ¹⁾			
			690/440 V	690/250 V	690/700 V ¹⁾	690/600 V	690/440 V	690/250 V
6 A	3.5 A ² s	3.1 W	—	—	3NC1406-OMK	—	—	—
	6.5 A ² s	2.5 W	3NC1006-OMK	—	—	—	—	—
10 A	15 A ² s	4.6 W	—	—	3NC1410-OMK	—	—	—
	17 A ² s	4.3 W	—	—	—	—	—	—
	18 A ² s	3.3 W	3NC1010-OMK	—	—	—	—	—
12 A	35 A ² s	4 W	3NC1012-OMK	—	—	—	—	—
16 A	32 A ² s	6.7 W	—	—	—	3NC1416-OMK	—	—
	45 A ² s	6 W	3NC1016-OMK	—	—	—	—	—
	52 A ² s	4.4 W	—	—	—	—	—	—
20 A	68 A ² s	7.4 W	—	—	—	3NC1420-OMK	—	—
	90 A ² s	6.5 W	—	—	—	—	—	—
	110 A ² s	7.8 W	—	3NC1020-OMK	—	—	—	—
25 A	108 A ² s	8.4 W	—	—	—	3NC1425-OMK	—	—
	120 A ² s	9.5 W	—	—	—	—	—	—
	140 A ² s	8.7 W	—	3NC1025-OMK	—	—	—	—
	160 A ² s	8.5 W	—	—	—	—	—	—
	180 A ² s	8.1 W	—	—	—	—	—	—
32 A	175 A ² s	12.3 W	—	—	—	3NC1432-OMK	—	—
	220 A ² s	12.3 W	—	—	—	—	—	—
	400 A ² s	8.9 W	—	—	—	—	—	—
	420 A ² s	9 W	—	—	—	—	—	—
	450 A ² s	12 W	—	3NC1032-OMK	—	—	—	—
40 A	400 A ² s	14.8 W	—	—	—	—	—	—
	470 A ² s	11.7 W	—	—	—	—	3NC1440-OMK	—
	600 A ² s	11 W	—	—	—	—	—	—
	700 A ² s	12.5 W	—	—	—	—	—	—
	1850 A ² s	9.4 W	—	—	—	—	—	—
50 A	830 A ² s	16.3 W	—	—	—	—	—	3NC1450-OMK
	980 A ² s	17.5 W	—	—	—	—	—	—
	1250 A ² s	13.8 W	—	—	—	—	—	—
	1250 A ² s	15.2 W	—	—	—	—	—	—
63 A	2050 A ² s	18.8 W	—	—	—	—	—	—
	2400 A ² s	17.5 W	—	—	—	—	—	—
80 A	4400 A ² s	23 W	—	—	—	—	—	—
100 A	11500 A ² s	28.7 W	—	—	—	—	—	—
Further information								
Catalog LV 10 – 10/2020			—	—	—	—	—	—

¹⁾ DC voltage according to UL

Size 22 × 58 mm				Size 22 × 127 mm	With M8 bolt-on links Size 18 × 88 mm	Size 26 × 103 mm
						
U _n AC/DC 690/700 V ¹⁾	690/600 V	690/440 V	690/250 V	U _n AC/DC 1500/1000 V	U _n AC/DC 690/440 V	U _n AC/DC 690/440 V
–	–	–	–	–	–	–
–	–	–	–	–	–	–
–	–	–	–	–	–	–
–	–	–	–	–	3NC1810-OMK	–
–	–	–	–	–	–	–
–	–	–	–	–	–	–
–	–	–	–	–	–	–
–	–	–	–	–	3NC1816-OMK	–
–	–	–	–	–	–	–
–	–	–	–	–	3NC1820-OMK	–
–	–	–	–	–	–	–
–	–	–	–	–	–	3NC2625-OMK
–	–	–	–	–	–	–
–	–	–	–	–	3NC1825-OMK	–
3NC2225-OMK	–	–	–	–	–	–
–	–	–	–	–	–	–
–	–	–	–	–	–	3NC2632-OMK
–	–	–	–	–	3NC1832-OMK	–
–	3NC2232-OMK	–	–	–	–	–
–	–	–	–	–	–	–
–	–	–	–	–	–	3NC2640-OMK
–	–	–	–	–	–	–
–	–	–	–	–	3NC1840-OMK	–
–	–	3NC2240-OMK	–	–	–	–
–	–	–	–	3NC2340-OMK	–	–
–	–	–	–	–	–	–
–	–	–	–	–	–	3NC2650-OMK
–	–	–	–	–	3NC1850-OMK	–
–	–	–	3NC2250-OMK	–	–	–
–	–	–	–	–	–	3NC2663-OMK
–	–	–	3NC2263-OMK	–	–	–
–	–	–	3NC2280-OMK	–	–	–
–	–	–	3NC2200-OMK	–	–	–
–	–	–	–	For further currents for operational class gG, see page 7/30 Operational class aR, see page 7/33	–	–

SITOR semiconductor fuse links (cylindrical fuse design)

Operational class aR

Size 10 × 38 mm ¹⁾

Size 14 × 51 mm

Standard



With striking pin



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

Further information

Catalog LV 10 – 10/2020

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

²⁾ CCC approval

Size 22 × 58 mm		Size 22 × 127 mm		Size 26 × 103 mm	
Standard		With striking pin		With M8 bolt-on links	
					
U _n AC/DC 690/700 V ²⁾	690/250 V	U _n AC/DC 600/500 V ¹⁾	690/500 V ¹⁾	U _n AC/DC 1500/1000 V	U _n AC/DC 690/440 V
—	—	—	—	—	—
—	—	—	—	—	—
—	—	—	—	—	—
—	—	—	—	—	—
—	—	—	—	—	—
—	—	—	—	—	—
—	—	—	—	—	—
—	—	—	—	—	—
—	—	—	—	—	—
—	—	—	—	—	—
—	—	—	—	—	—
—	—	—	—	—	—
—	—	—	—	—	—
—	—	—	—	—	—
—	—	—	—	—	—
—	—	—	—	—	—
—	—	—	—	—	—
—	—	—	—	—	—
—	—	—	—	—	—
—	—	—	—	—	—
3NC2220	—	—	—	—	—
—	—	—	—	—	—
—	—	—	3NC2220-5	—	—
—	—	—	—	—	—
3NC2225	—	—	—	—	—
—	—	—	—	—	—
—	—	—	3NC2225-5	—	—
—	—	—	—	—	—
—	—	—	—	—	—
—	—	—	—	—	—
3NC2232	—	—	—	—	—
—	—	—	—	—	—
—	—	—	3NC2232-5	—	—
—	—	—	—	—	—
3NC2240	—	—	—	—	—
—	—	—	—	—	—
—	—	—	3NC2240-5	—	—
3NC2250	—	—	—	—	—
—	—	—	3NC2250-5	—	—
—	—	—	—	—	—
—	—	—	—	3NC2350-0MK	—
—	—	—	—	—	—
3NC2263	—	—	—	—	—
—	—	—	3NC2263-5	—	—
—	—	—	—	—	—
3NC2280	—	—	—	—	3NC2680-0MK
—	—	—	—	—	—
—	—	—	3NC2280-5	—	—
—	—	—	—	—	—
3NC2200	—	—	—	—	3NC2600-0MK
—	—	—	—	—	—
—	—	3NC2200-5	—	—	—
—	—	—	—	—	—
—	3NC2211-0MK	—	—	—	3NC2611-0MK
—	—	—	—	—	—
—	—	—	—	For further currents for operational class gR, see page 7/31 Operational class gS see page 7/30	—

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	U _n DC	
			1000 V	1200 V	1500 V
2 A	1.4 W	0.6 W	3NW6002-4	–	–
	2.7 W	1.1 W	–	–	3NW6604-4
4 A	1.6 W	0.7 W	3NW6004-4	–	–
	3.0 W	1.2 W	–	–	3NW6601-4
6 A	1.7 W	0.7 W	3NW6001-4	–	–
	3.6 W	1.5 W	–	–	3NW6608-4
8 A	1.9 W	0.8 W	3NW6008-4	–	–
	3.7 W	1.6 W	–	–	3NW6603-4
10 A	2.3 W	1.0 W	3NW6003-4	–	–
	3.3 W	1.4 W	–	–	3NW6606-4
12 A	2.7 W	1.1 W	3NW6006-4	–	–
	3.7 W	1.6 W	–	–	3NW6605-4
16 A	3.2 W	1.3 W	3NW6005-4	–	–
	4.0 W	1.7 W	–	3NW6607-4	–
20 A	3.4 W	1.4 W	3NW6007-4	–	–

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

Class CC fuse links

Acc. to UL

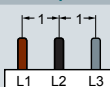
Characteristic: Slow			Characteristic: Slow, current-limiting			Characteristic: Quick		
								
I_n	$I_n^{1)}$							
0.6 A	6/10 A	3NW1006-OHG	–	–	–	–	–	–
0.8 A	8/10 A	3NW1008-OHG	–	–	–	–	–	–
1 A	–	3NW1010-OHG	–	3NW3010-OHG	–	–	3NW2010-OHG	–
1.5 A	1 ½ A	3NW1015-OHG	–	–	–	–	–	–
2 A	–	3NW1020-OHG	–	3NW3020-OHG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

¹⁾ American English wording

Busbars

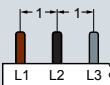
According to IEC and UL, can be cut

Pin spacing 1 MW

Pin spacing in MW (1 MW = 18 mm)	Application	Length	Version	Conductor cross-section	
Single-phase					Article No.
	For MINIZED D01 fuse switch disconnectors	220 mm	With end caps	16 mm ²	5ST2186
		1000 mm	Without end caps	16 mm ²	5ST2190
Single-phase, angled					Article No.
	For cylindrical fuse holders 8 × 32 mm and 10 × 38 mm	214 mm	With end caps	16 mm ²	5ST3700
	For SITOR cylindrical fuse holders 10 × 38 mm For Class CC fuse holders	1016 mm	Without end caps	16 mm ²	5ST3701
Two-phase					Article No.
	For cylindrical fuse holders 8 × 32 mm and 10 × 38 mm	214 mm	With end caps	16 mm ²	5ST3704
	For SITOR cylindrical fuse holders 10 × 38 mm	1016 mm	Without end caps	16 mm ²	5ST3705
	For Class CC fuse holders				
	For MINIZED D01 fuse switch disconnectors	220 mm	With end caps	16 mm ²	5ST2187
		1000 mm	Without end caps	16 mm ²	5ST2191
Three-phase					Article No.
	For cylindrical fuse holders 8 × 32 mm and 10 × 38 mm	214 mm	With end caps	16 mm ²	5ST3708
	For SITOR cylindrical fuse holders 10 × 38 mm	1016 mm	Without end caps	16 mm ²	5ST3710
	For Class CC fuse holders				
	For MINIZED D01 fuse switch disconnectors	220 mm	With end caps	16 mm ²	5ST2188
		1000 mm	Without end caps	16 mm ²	5ST2192

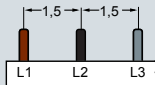
According to UL 508, can be cut

Pin spacing 1 MW

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

According to IEC and UL, can be cut

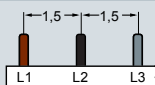
Pin spacing 1.5 MW

Pin spacing in MW (1 MW = 18 mm)	Application	Length	Version	Conductor cross-section	Article No.
Single-phase					
	For NEOZED D01 / D02 fuse bases made of molded plastic 5SG1.30, 5SG1.31, 5SG5.30	1000 mm	Without end caps, non-insulated	36 mm ²	5SH5322
Single-phase, angled					
	For 5SG71.3 MINIZED switch disconnectors with fuses D02 For NEOZED D01 / D02 fuse bases made of molded plastic 5SG1301, 5SG1701, 5SG5301, 5SG5701, 5SG1302, 5SG1702, 5SG5302, 5SG5702 For NEOZED D01 / D02 fuse bases made of ceramic with saddle terminals For cylindrical fuse holders 14 × 51 mm For SITOR cylindrical fuse holders 14 × 51 mm	1016 mm	Without end caps	16 mm ²	5ST3703
Three-phase					
	For 5SG71.3 MINIZED switch disconnectors with fuses D02 For NEOZED D01 / D02 fuse bases made of molded plastic 5SG1301, 5SG1701, 5SG5301, 5SG5701, 5SG1302, 5SG1702, 5SG5302, 5SG5702 For NEOZED D01 / D02 fuse bases made of ceramic with saddle terminals For cylindrical fuse holders 14 × 51 mm For SITOR cylindrical fuse holders 14 × 51 mm	1016 mm	Without end caps	16 mm ²	5ST3714
	For NEOZED D01 / D02 fuse bases made of molded plastic 5SG1.30, 5SG1.31, 5SG5.30 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

7

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 25 mm ²	5ST3703-0HG 5ST3701-2HG
Two-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 25 mm ²	5ST3714-0HG 5ST3710-2HG

Busbars

Accessories

For busbars according to IEC

Terminals			
 	- 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
Bus-mounting terminal			
	- For DIAZED EZR bus-mounting bases - Non-insulated		
	Conductor cross-section	Article No.	
	1.5 ... 16 mm ²	8JH4122	
	10 ... 35 mm ²	8JH4124	
Touch protection			
	For free connections, yellow (RAL 1004) 5 × 1 pin		
			Article No.
			5ST3655
End caps			
  	Version	For bar type	Article No.
	For single-phase busbars	5ST2190	5ST2196
		5ST37 and 5SH55	5ST3748
	For two-phase and three-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 single-phase busbars	5ST3748-0HG
For two- and three-phase busbars	5ST3750-0HG

LV HRC signal detectors, electronic fuse monitoring

LV HRC signal detectors



- Only for SIEMENS LV HRC fuse links 3NA3, 3NA7, 3ND 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 termination 2.3 mm

Fuse size

000 ... 4

Article No.

3NX1021

Signal detector links



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

Fuse size

000 ... 4

Response value

>9 V / 2.5 A

Application

For standard applications

Article No.

3NX1022

>2 V / 7 A

Only for meshed networks

3NX1023

Signal detector tops



- Only for SIEMENS LV HRC fuse links 3NA3, 3NA7, 3ND 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 termination 2.3 mm

Fuse size

000, 00, 1, 2

Article No.

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

230 V

I_n

4 A

U_c

3 AC 380 ... 415 V

Article No.

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

230 V

I_n

1.5 A

U_c

3 AC 690 V

Article No.

3KF9010-1AA00

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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

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E86060-K1814-A101-A7-7600



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

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ET D1 Switches and Socket Outlets DELTA

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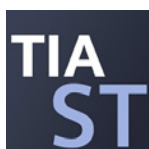
IC 10 Industrial Controls SIRIUS

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