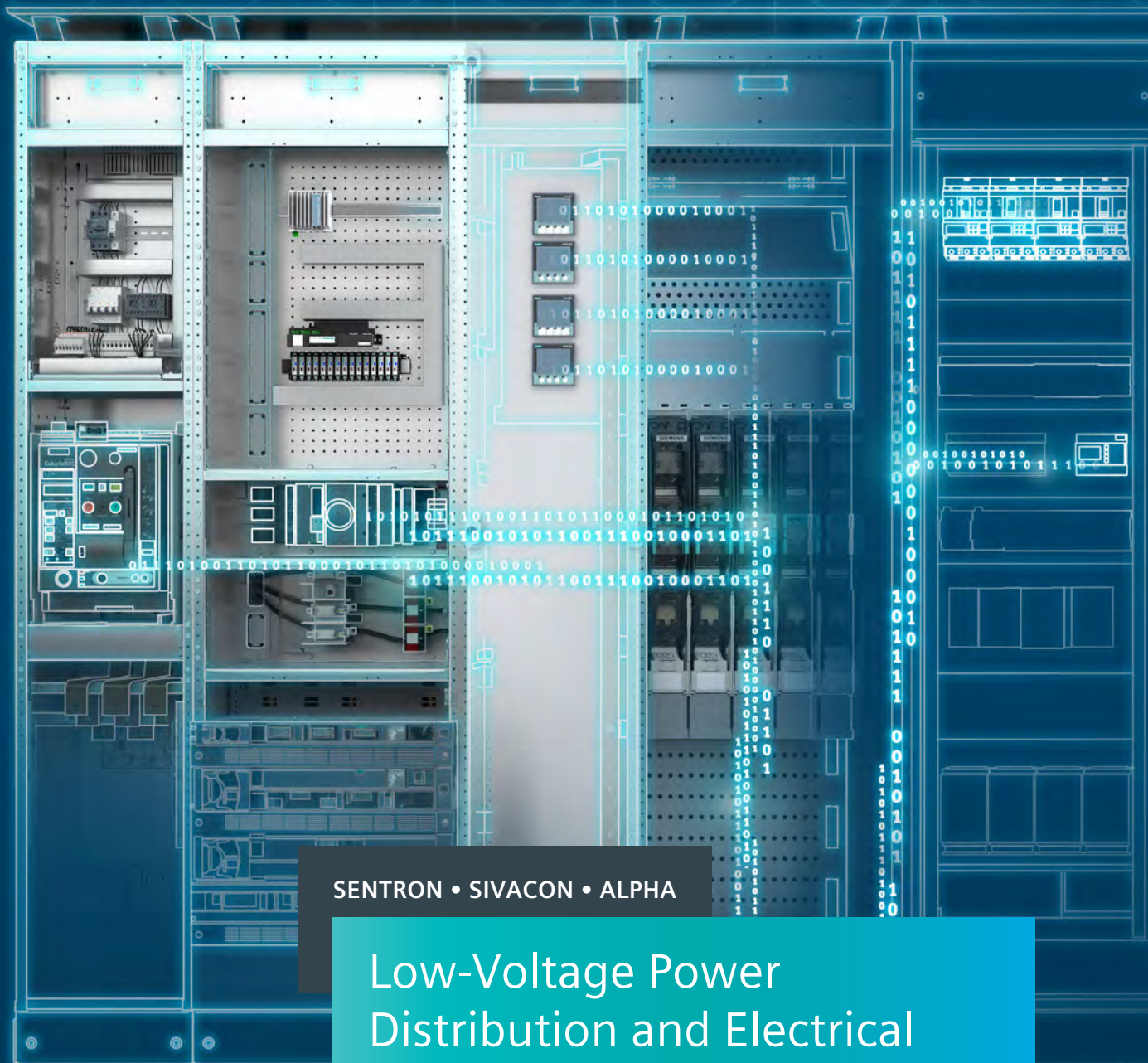


SIEMENS



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Low-Voltage Power Distribution and Electrical Installation Technology

Overvoltage Protection Devices

Catalog
Extract
LV 10

Edition
04/2020

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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

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Overvoltage protection devices

The more than one million lightning strikes in Germany every year pose a considerable risk for buildings and systems that can be damaged due to the unhindered effect of lightning currents, overvoltage and power surges. In many cases however, it is not apparent that such damage has been caused by lightning currents, overvoltage and power surges.

Overvoltage results in considerable damage to electrical and electronic equipment. Even brief transients in power supply lines or between electrical lines and other conductive parts (e.g. grounded metallic parts, ground) are sufficient to cause such damage. The damage patterns of destroyed lines, circuit boards or switchgear demonstrate this. Such damage can be prevented employing suitable overvoltage protection means.

Reliably protected by Siemens lightning and surge arresters!

Overvoltage Protection Devices



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A multitude of additional information ...

Information + ordering

All the important things at a glance

Information to get you started

For information about overvoltage protection devices, please visit our website

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Your product in detail

The Siemens Industry Online Support portal provides comprehensive information

www.siemens.com/lowvoltage/product-support

- Technology primer – Overvoltage protection devices (109756965)

The relevant tender specifications can be found at

www.siemens.com/lowvoltage/tenderspecifications

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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.

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... can be found in our online services

Commissioning + operation

Your product in detail

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www.siemens.com/lowvoltage/product-support

- Operating instructions
- Certificates

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

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Manuals

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- Configuration manual – Overvoltage protection devices (45315289)

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- Protection concept (WT-LVBPC)

Technical overview – Overvoltage protection devices



The fast way to get you to our online services

This page provides you with comprehensive information and links on overvoltage protection devices

www.siemens.com/lowvoltage/product-support (109769084)

System overview

Basic units



5SD74 lightning arresters type 1



5SD74 combination surge arresters type 1 + type 2



5SD74 combination surge arresters type 1 / type 2



5SD74 surge arresters type 2 (standard design)



5SD74 surge arresters type 3

Replacement plugs



N-PE



L-N, L-PEN (type 1)



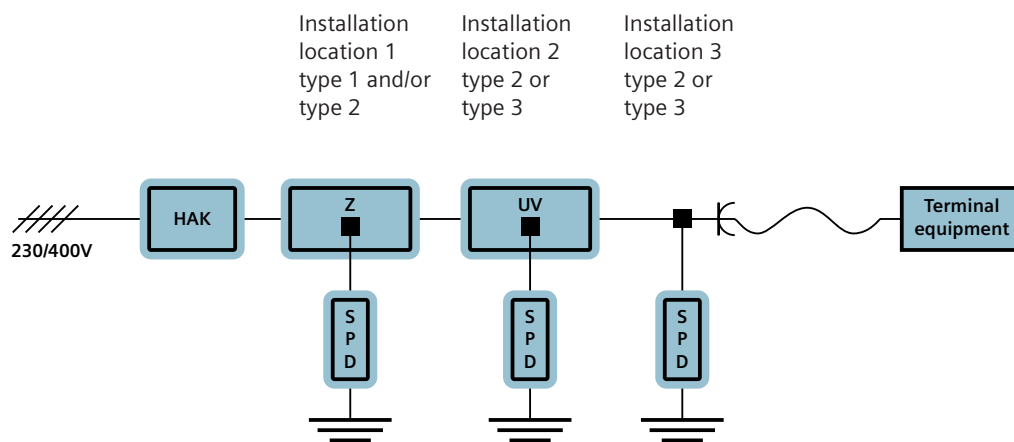
L-PEN

Note:

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



Installation locations for surge protection devices (SPDs)



HAK: Main terminal box

Z/HV: In or close to the central meter system / main distribution board

UV: Subdistribution board

Installation location 1 must be as close as possible to the supply point for the electrical system, so that the downstream installations are protected. The SPDs at installation locations 2 and 3 shall not be used without SPDs at installation location 1, and they must be coordinated with these SPDs (i.e. SPDs all from the same manufacturer).

5SD74 lightning arresters, type 1

	For TN-C and IT systems	For TN-C systems	For TN-S and TT systems	
Protection paths	L-PE	L-PEN	L-N, L-PE and N-PE	L-N, L-PE and N-PE
Rated voltage U_n	690 V AC	240/415 V AC	240 V AC	240/415 V AC
Maximum continuous voltage U_c	800 V AC	350 V AC	350 V AC	350 V AC
				

Circuit	Mounting width				
With remote signaling					
1 + 0	— ¹⁾	5SD7411-2	—	—	—
1 + 1	4 MW	—	—	5SD7412-1	—
3 + 0	6 MW	—	5SD7413-1	—	—
3 + 1	8 MW	—	—	—	5SD7414-1

¹⁾ No modular installation device.

Further technical specifications

Further technical specifications		5SD7411-2	5SD7412-1	5SD7413-1	5SD7414-1
Standards					
Standards		IEC 61643-11, EN 61643-11			
Approvals		—	KEMA, UL/cUL		
Voltage					
Protection level U _p	L-N and L-PEN	≤4.50 kV	≤1.50 kV		
	L-PE	—	≤2.50 kV	—	≤2.50 kV
	N-PE	—	≤1.50 kV	—	≤1.50 kV
Current					
Lightning impulse current I _{imp} (10/350 μs)	L-N and L-PEN, 1P/3P	35 kA	25 kA	25/75 kA	
	N-PE	—	100 kA	—	100 kA
Rated discharge surge current I _n (8/20 μs)	L-N and L-PEN, 1P/3P	35 kA	25 kA	25/75 kA	
	N-PE	—	100 kA	—	100 kA
Follow current discharge capacity I _{fi} (AC)	L-N and L-PEN for 264/350 V	—	50/25 kA		
	N-PE	—	100 A	—	100 A
Function					
Response time t _A	L-N and L-PEN	≤100 ns			
	L-N and N-PE	—	≤100 ns	—	≤100 ns
Connections					
Conductor cross-section	Finely stranded	16 ... 50 mm ²	2.5 ... 25 mm ²		
	Solid	16 ... 50 mm ²	2.5 ... 35 mm ²		
Protection devices					
Max. back-up fuse acc. to IEC 61643-1	For stub wiring (gL/gG)	400 A	315 A		
	For V wiring (gL/gG)	125 A	125 A		
Short-circuit withstand current	With max. back-up fuse	50 kA	50 kA		
Environmental conditions					
Degree of protection		IP20, with connected conductors			
Temperature range		−40 ... +80 °C			

Accessories

Replacement plugs



Protection paths	Basic units	Article No.
N-PE	5SD7412-1 and 5SD7414-1	5SD7418-0
L-N and L-PEN	For 5SD7412-1, 5SD7413-1 and 5SD7414-1	5SD7418-1

5SD74 combination surge arresters, type 1 + type 2

	For TN-C systems	For TN-S and TT systems
Protection paths	L-PEN	L-N, L-PE and N-PE
Rated voltage U_n	240/415 V AC	240 V AC
Maximum continuous voltage U_c	350 V AC	350 V AC
		
Circuit	Mounting width	
With remote signaling		
1 + 1	4 MW	5SD7442-1
3 + 0	6 MW	5SD7443-1
3 + 1	8 MW	5SD7444-1

Further technical specifications

Further technical specifications		5SD7442-1	5SD7443-1	5SD7444-1
Standards				
Standards		IEC 61643-11; EN 61643-11		
Approvals		KEMA, UL/cUL		
Voltage				
Protection level U _p	L-N and L-PEN	≤1.50 kV		
	L-PE	≤2.20 kV	–	≤2.20 kV
	N-PE	≤1.50 kV	–	≤1.50 kV
Current				
Lightning impulse current I _{imp} (10/350 μs)	L-N and L-PEN	25 kA		
	N-PE	100 kA	–	100 kA
Rated discharge surge current I _n (8/20 μs)	L-N and L-PEN	25 kA		
	N-PE	100 kA	–	100 kA
Follow current discharge capacity I _{fi} (AC)	L-N and L-PEN	25 kA		
	N-PE	100 A	–	100 A
Function				
Response time t _A	L-N and L-PEN	≤25 ns		
	L-N and N-PE	≤100 ns	–	≤100 ns
Connections				
Conductor cross-section	Finely stranded	2.5 ... 25 mm ²		
	Solid	2.5 ... 35 mm ²		
Protection devices				
Max. back-up fuse acc. to IEC 61643-1	For stub wiring (gL/gG)	315 A		
	For V wiring (gL/gG)	125 A		
Short-circuit withstand current	With max. back-up fuse	25 kA		
Environmental conditions				
Degree of protection	IP20, with connected conductors			
Temperature range	–40 ... +80 °C			
Display				
Visual function/fault indication	Yes			

Accessories

Replacement plugs



Protection paths	Type	Basic units	Article No.
N-PE	—	5SD7442-1 and 5SD7444-1	5SD7418-0
L-N and L-PEN	1	5SD7442-1, 5SD7443-1 and 5SD7444-1	5SD7448-1
	2	5SD7442-1, 5SD7443-1 and 5SD7444-1	5SD7428-1

5SD74 combination surge arresters, type 1 / type 2

	For TN-C and IT systems	For TN-C systems	For TN-S and TT systems		For photovoltaic systems
Protection paths	L-PE	L-PEN	L-N, L-PE and N-PE	L-N, L-PE and N-PE	(L+) – (L–)
Rated voltage U_n	690 V AC	240/415 V AC	240 V AC	240/415 V AC	–
Maximum continuous voltage U_c	800 V AC	335 V AC	335 V AC	335 V AC	1000 V DC
					

Circuit	Mounting width					Plug-in
With remote signaling						
1 + 0	— ¹⁾	5SD7411-2	—	—	—	—
3 + 0	3 MW	—	5SD7413-3	—	—	
3 + 1	4 MW	—	—	—	5SD7414-3	—
Without remote signaling						
1 + 1	2 MW	—	—	5SD7412-2	—	—
3 + 0	3 MW	—	5SD7413-2	—	—	5SD7483-6
3 + 1	4 MW	—	—	—	5SD7414-2	—

¹⁾ No modular installation device.

Further technical specifications		5SD7411-2	5SD7412-2	5SD7413-2 5SD7413-3	5SD7414-2 5SD7414-3	5SD7483-6
Standards						
Standards		IEC 61643-11				EN 50539
Approvals		–	KEMA			
Voltage						
Protection level U _p	L-N and L-PEN	≤4.50 kV	≤1.20 kV			≤3.50 kV
	L-PE	–	≤2.0 kV			–
	N-PE	–	≤1.70 kV	–	≤1.70 kV	–
Current						
Lightning impulse current I _{imp} (10/350 μs)	L-N and L-PEN	35 kA	12.5 kA			≤5 kA
	N-PE	–	50 kA	–	50 kA	–
Rated discharge surge current I _n (8/20 μs)	L-N and L-PEN	35 kA	12.5 kA			15 kA
	N-PE	–	50 kA	–		
Max. discharge surge current I _{max} . (8/20 μs)	L-N	100 kA	12.5 kA	50 kA		40 kA
	N-PE	–	50 kA	–	50 kA	–
Function						
Response time t _A	L-N and L-PEN	<100 ns	≤25 ns			
	L-N and N-PE	–	≤100 ns	–	≤100 ns	≤25 ns
Connections						
Conductor cross-section	Finely stranded	16 ... 50 mm ²	1.5 ... 25 mm ²			
	Solid	16 ... 50 mm ²	1.5 ... 35 mm ²			
Protection devices						
Max. back-up fuse acc. to IEC 61643-1	For stub wiring (gL/gG)	400 A	160 A			–
	For V wiring (gL/gG)	125 A	80 A			–
Short-circuit withstand current	With max. back-up fuse	50 kA	25 kA			–
Environmental conditions						
Degree of protection		IP20, with connected conductors				
Temperature range		–40 ... +80 °C				

Accessories

Replacement plugs



Protection paths	Type	Basic units	Article No.
N-PE	—	5SD7412-2, 5SD7412-3, 5SD7414-2 and 5SD7414-3	5SD7418-2
L-N and L-PEN	1	5SD7412-2, 5SD7412-3, 5SD7413-2, 5SD7413-3, 5SD7414-2 and 5SD7414-3	5SD7418-3
L-PE (PV)	2	5SD7483-6	5SD7498-3

5SD74 surge arresters, type 2

Standard design

	For TN and TT systems		For TN-C and IT systems	For TN-C systems	For IT systems		For TN-S and TT systems
Protection paths	N-PE	L-PEN and L-N	L-PEN and L-N	L-PEN	L-PEN and L-PE	L-PEN and L-PE	L-N, L-PE and N-PE
Rated voltage U_n	240/415 V AC	240/415 V AC	400/690 V AC	240/415 V AC	400/690 V AC	554/960 V AC	240/415 V AC
Maximum continuous voltage U_c	260 V AC	350 V AC	800 V AC	350 V AC	580 V AC	760 V AC	350 V AC (L-N, L-PE) 260 V AC (N-PE)
							

Circuit	Mounting width							
With remote signaling								
1 + 0	1 MW	–	5SD7461-1	–	–	–	–	–
	2 MW	–	–	5SD7481-1	–	–	–	–
3 + 0	3 MW	–	–	–	5SD7463-1	5SD7473-1	5SD7483-5	–
3 + 1	4 MW	–	–	–	–	–	–	5SD7464-1
Without remote signaling								
1 + 0	1 MW	5SD7481-0	5SD7461-0	–	–	–	–	–
3 + 0	3 MW	–	–	–	5SD7463-0	–	–	–
3 + 1	4 MW	–	–	–	–	–	–	5SD7464-0

Further technical specifications		5SD7481-0	5SD7461-0 5SD7461-1	5SD7481-1	5SD7463-0 5SD7463-1	5SD7464-0 5SD7464-1	5SD7473-1	5SD7483-5
Standards								
Standards		IEC 61643-11; EN 61643-11						
Approvals		KEMA					–	KEMA, UL / cUL
Voltage								
Protection level U _p	L-N and L-PEN	–	≤1.50 kV	≤5 kV	≤1.50 kV	≤1.60 kV	≤2.50 kV	≤2.90 kV
	L-PE	–				≤1.90 kV	–	
	N-PE	≤1.50 kV	–			≤1.50 kV	–	
Current								
Rated discharge surge current I _n (8/20 μs)	L-N and L-PEN	–	20 kA	15 kA	20 kA		15 kA	
	N-PE	20 kA	–			20 kA	–	
Max. discharge surge current I _{max} . (8/20 μs)	L-N	–	40 kA	30 kA	40 kA		30 kA	
	N-PE	40 kA	–			40 kA	–	
Function								
Response time t _A	L-N and L-PEN	–	≤25 ns	≤100 ns	≤25 ns			
	L-N and N-PE	≤100 ns	–				≤100 ns	–
Connections								
Conductor cross-section	Finely stranded	1.5 ... 25 mm ²						
	Solid	1.5 ... 35 mm ²						
Protection devices								
Max. back-up fuse acc. to IEC 61643-1	For stub wiring (gL/gG)	–	125 A	100 A	125 A			100 A
	For V wiring (gL/gG)	–			80 A			
Short-circuit withstand current	With max. back-up fuse	25 kA						
Environmental conditions								
Degree of protection		IP20, with connected conductors						
Temperature range		–40 ... +80 °C						

Accessories

Replacement plugs



Protection paths	Basic units	Article No.
N-PE	5SD7481-0, 5SD7464-0 and 5SD7464-1	5SD7488-0
L-N and L-PEN	5SD7461-0, 5SD7461-1, 5SD7463-0, 5SD7463-1, 5SD7464-0 and 5SD7464-1	5SD7468-1
L-PEN	5SD7481-1 and 5SD7483-5	5SD7488-2
	5SD7481-1	5SD7488-4

5SD74 surge arresters, type 2

Narrow design

For TN-S and TT systems

Protection paths
Rated voltage U_n
Rated arrester voltage U_C ; L-N, N-PE, L-(PE)N
Rated arrester voltage U_C ; N-PE

L-N and N-PE

240 V AC

350 V AC

264 V AC

L-N and N-PE

240/415 V AC

350 V AC

264 V AC



Circuit	Mounting width	Rated discharge surge current I _n (8/20 μs)			
		L-N or L-(PE)N	N-PE		
With remote signaling					
1 + 1	24 mm (1 1/3 MW)	20 kA	20 kA	5SD7422-1	–
3 + 1	48 mm (2 2/3 MW)	20 kA	20 kA	–	5SD7424-1
		20 kA	40 kA	–	–
Without remote signaling					
1 + 1	24 mm (1 1/3 MW)	20 kA	20 kA	5SD7422-0	–
3 + 1	48 mm (2 2/3 MW)	20 kA	20 kA	–	5SD7424-0
		20 kA	40 kA	–	–

Further technical specifications

5SD7422-0
5SD7422-1

5SD7424-0
5SD7424-1

Standards		
Standards		IEC 61643-11, EN 61643-11
Approvals		KEMA/UL/cUL
Voltage		
Protection level U _p	L-N and L-PEN	≤1.50 kV
	L-PE	≤1.90 kV
	N-PE	≤1.50 kV
Current		
Rated discharge surge current I _n (8/20 μs)	L-N and L-PEN	20 kA
	N-PE	20 kA
Max. discharge surge current I _{max} (8/20 μs)	L-N	40 kA
	N-PE	40 kA
Function		
Response time t _A	L-N and L-PEN	≤25 ns
	L-N and N-PE	≤100 ns
Connections		
Conductor cross-section	Finely stranded	2.5 ... 16 mm ²
	Solid	2.5 ... 25 mm ²
Protection devices		
Max. back-up fuse acc. to IEC 61643-1	For stub wiring (gL/gG)	315 A
	For V wiring (gL/gG)	63 A
Short-circuit withstand current	With max. back-up fuse	25 kA
Environmental conditions		
Degree of protection		IP20, with connected conductors
Temperature range		−40 ... +80 °C

Accessories

Replacement plugs



Protection paths	Basic units	Article No.
N-PE	5SD7422-0, 5SD7422-1, 5SD7424-0 and 5SD7424-1	5SD7428-0
L-N and L-PEN	5SD7422-0, 5SD7422-1, 5SD7424-0 and 5SD7424-1	5SD7428-1

5SD74 surge arresters, type 3

For TN-S and TT systems			
Protection paths	L-N, L-PE, N-PE, (L+) – (L–) and (L+/L–) – PE	L-N, L-PE, N-PE, (L+) – (L–) and (L+/L–) – PE	L-N, L-PE, N-PE, (L+) – (L–) and (L+/L–) – PE
Rated voltage U_n	24 V AC	120 V AC	230 V AC
Rated arrester voltage U_C	34 V AC	150 V AC	264 V AC
			

Circuit	Mounting width			
With remote signaling				
1 + 0	1 MW	5SD7432-5 new	5SD7432-6 new	5SD7432-7 new

Further technical specifications

Further technical specifications		5SD7432-5	5SD7432-6	5SD7432-7
Standards				
Standards		IEC 61643-11; EN 61643-11		
Approvals		KEMA/UL/cUL		
Voltage				
Protection level U _p	L-N, L-PE and N-PE	≤200/≤600 V	≤750/≤850 V	≤1250/≤1400 V
Current				
Rated load current I _L (at 30 °C)		26 A		
Rated discharge surge current I _n (8/20 μs)		1 kA	5 kA	
Combined surge U _{open collector}		2 kV	6 kV	
Function				
Response time t _A		≤100 ns		
Connections				
Conductor cross-section	Finely stranded	0.2 ... 2.5 mm ²		
	Solid	0.2 ... 4 mm ²		
Protection devices				
Required back-up fuse, max.	(gG/B/C)	25 A		
Environmental conditions				
Degree of protection		IP20, with connected conductors		
Temperature range		−40 ... +80 °C		
Display				
Visual function/fault indication		Yes		

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.

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- for other supplies of hard- and software the „International Terms & Conditions for Products“¹⁾ supplemented by „Software Licensing Conditions“¹⁾

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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.

3. Export Regulations

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Catalog LV 10

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Catalogs and further information



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Protection, Switching, Measuring and
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PDF (E86060-K8280-A101-B1-7600)
Print (E86060-K8280-A101-A6-7600)



LV 14 Power Monitoring Made Simple SENTRON

PDF/Print (E86060-K1814-A101-A6-7600)



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

PDF (E86060-K8280-E347-A4-7600)



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PDF



IC 10 Industrial Controls SIRIUS

PDF/Print (E86060-K1010-A101-B1-7600)



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