

Surge arrester Type 2 Requirement class C, UC 350V Pluggable protective modules 4-pole, 3+1 circuit for TN-S and TT systems with remote display



Article number

General data	
Standard	IEC 61643-11: 2011, EN 61643-11: 2012
Product designation	Surge protection device
SPD classification / acc. to EN 61643-11	
• Test Class I, Type 1	No
• Test Class II, Type 2	Yes
• Test Class III, Type 3	No
Number of SPD ports	1
Design of the product	Surge arrester
Design of pole	3+N/PE
Designation of the protective paths	L-N, L-PE, N-PE
accessories	3 x 5SD7468-1 + 1 x 5SD7488-0
Mounting type	DIN rail NS 35
Material / of the enclosure	PA 6.6 / PBT
Size of surge arrester	4MW
Degree of pollution	2
Overvoltage category / acc. to IEC 61010-1	III
Protection class IP / at connection all terminals	IP20

Shock acceleration	25 gn
Vibrational acceleration / at 5 Hz ... 500 Hz / limited to 2,5 h / per axis	5 gn
Ambient temperature / during operation	-40 °C ... 80 °C
Ambient temperature / during storage and transport	-40 °C ... 80 °C
Relative humidity / during operation	5 % ... 95 %
Installation altitude / at height above sea level / maximum	2 000 m
Width	71.5 mm
Height	99 mm
Depth	71.5 mm
Net weight	398 g

#### Electrical data

Type of distribution system	TT, TN-S
Operating voltage	240 / 415 V AC
Continuous operating voltage	
• between N and PE	260 V
• between L and (PE)N	350 V
Load current	80 A
Protective conductor current	5 µA (255 V AC)
Apparent power consumption / maximum	450 mVA
Discharge current	
• at (8/20) µs	20 kA
• 1 phase / at (8/20) µs	40 kA
Follow current extinguishing capability	
• between N and PE	100 A (260 V)
Short-circuit rating (SCCR) / at 264 V	25 kA
Protection level	
• between L and N	1.6 kV
• between L and PE	1.9 kV
• between N and L	1.4 kV
• between N and PE	1.5 kV
• between PE and N and/or L	1.5 kV
Residual voltage	
• between L and (PE)N	
— at rated value of discharge current / maximum	1.6 kV
— at 10 kA / maximum	1.5 kV
— at 5 kA / maximum	1.3 kV
— at 3 kA / maximum	1.1 kV
• between L and PE	
— at rated value of discharge current / maximum	1.9 kV

— at 10 kA / maximum	1.5 kV
— at 5 kA / maximum	1.3 kV
— at 3 kA / maximum	1.2 kV
• between N and PE	
— at rated value of discharge current / maximum	0.4 kV
— at 10 kA / maximum	0.25 kV
— at 5 kA / maximum	0.15 kV
— at 3 kA / maximum	0.1 kV
Response value of the surge voltage / at 6 kV / at (1.2/50) $\mu$ s	
• between N and PE	1.5 kV
Response time	
• between L and (PE)N	25 ns
• between N and PE	100 ns
Settable response factor / of trip current	1.6
Fuse protection type / at V-shaped connection	80 A AC (gG)
Fuse protection type / for T-connector	125 A AC (gG)
Insulation resistance (Riso)	1 000 M $\Omega$

#### Connections/Terminals

Type of electrical connection	Screw terminal
Wire stripping length	16 mm
Tightening torque	4.3 ... 4.7
Wire stripping length	16 mm
Connectable conductor cross-section	
• for finely stranded conductor	1.5 ... 25
• for rigid conductor	1.5 ... 35
• finely stranded	0.5 ... 25
AWG number / as coded connectable conductor cross section	15 ... 2
Design of the thread / of the connection screw	M5
Signal design	Optical, remote signaling contact

#### Indicator/remote signaling

Switching function / of the remote-signaling contacts	PDT contact
Operating voltage / of the remote-signaling contacts	
• at AC	5 ... 250
• at DC	30 V
Operating current / of the remote-signaling contacts	
• at AC	5 mA ... 1 A
• at DC	1 A DC (30 V DC)
Connection type of remote signaling contact	M2
Connectable conductor cross-section	

<ul style="list-style-type: none"> <li>• for remote signaling contacts / for rigid conductor</li> </ul>	0.14 ... 1.5
<ul style="list-style-type: none"> <li>• for finely stranded conductor / for remote signaling contacts</li> </ul>	0.14 ... 1.5
AWG number / as coded connectable conductor cross section / for remote signaling contacts / minimum	28
AWG number / as coded connectable conductor cross section / for remote signaling contacts / maximum	16
Tightening torque / for remote signaling contacts	0.25 N·m
Wire stripping length / of the cable / for remote signaling contacts	7 mm

#### NEMA/UL - Data

Type of distribution system	TT, TN-S
TOV behavior	
<ul style="list-style-type: none"> <li>• at TOV test voltage (L-N)</li> </ul>	415 V AC (5 s / withstand mode) / 440 V AC (120 min / safe failure mode)
<ul style="list-style-type: none"> <li>• at TOV test voltage (N-PE)</li> </ul>	1200 V (200 ms / withstand mode)
Combustibility class acc. to UL 94	V-0

#### Further information

##### Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

##### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mfb=5SD7464-1>

##### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/5SD7464-1>

##### Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mfb=5SD7464-1](http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=5SD7464-1)

##### CAX-Online-Generator

<http://www.siemens.com/cax>