

Surge arrester Type 2 Requirement class C, UC 350V Pluggable protective modules 1-pole, L-N circuit



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	1
Designation of the protective paths	L-PEN, L-N
accessories	1 x 5SD7468-1
Mounting type	DIN rail NS 35
Material / of the enclosure	PA 6.6 / PBT
Size of surge arrester	1WM
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	17.8 mm
Height	90 mm
Depth	71.5 mm
Net weight	109 g

#### Electrical data

Type of distribution system	TN, TT
Operating voltage	240 / 415 V AC
Continuous operating voltage	
• maximum	350 V
Load current	80 A
Protective conductor current	0.45 mA (255 V AC)
Apparent power consumption / maximum	150 mVA
Discharge current	
• at (8/20) µs	20 kA
• 1 phase / at (8/20) µs	40 kA
Short-circuit rating (SCCR) / at 264 V	25 kA
Protection level	1.4 kV
• maximum	1.5 kV
Residual voltage	
• at rated value of discharge current / maximum	1.5 kV
• at 10 kA maximum	1.3 kV
• at 5 kA maximum	1.2 kV
• at 3 kA / maximum	1.1 kV
Response time	25 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)

#### 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

<ul style="list-style-type: none"> <li>• for rigid conductor</li> </ul>	1.5 ... 35
<ul style="list-style-type: none"> <li>• finely stranded</li> </ul>	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

NEMA/UL - Data	
Type of distribution system	TN, TT
TOV behavior <ul style="list-style-type: none"> <li>• at TOV test voltage</li> </ul>	415 V AC (5 s / withstand mode) / 440 V AC (120 min / safe failure 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?mlfb=5SD7461-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SD7461-0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SD7461-0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SD7461-0)

**CAX-Online-Generator**

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

