



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

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
Product version	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
fastening method	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 / minimum permissible ... ambient temperature / during operation / maximum permissible	-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	90 mm
depth	71.5 mm
net weight	390 g
Electrical data	
type of distribution system	TT, TN-S
operating voltage	240 / 415 V AC
operating voltage	230 V
operating frequency	50/60 Hz
continuous operating voltage	
• maximum	350 V

<ul style="list-style-type: none"> <li>• between N and PE</li> </ul>	260 V
<ul style="list-style-type: none"> <li>• between L and (PE)N</li> </ul>	350 V
load current	80 A
protective conductor current	5 $\mu$ A (255 V AC)
apparent power consumption / maximum	450 mVA
discharge current	
<ul style="list-style-type: none"> <li>• at (8/20) <math>\mu</math>s</li> </ul>	20 kA
<ul style="list-style-type: none"> <li>• 1 phase / at (8/20) <math>\mu</math>s</li> </ul>	40 kA
follow current extinguishing capability	
<ul style="list-style-type: none"> <li>• between N and PE</li> </ul>	100 A (260 V)
short-circuit rating (SCCR) / at 264 V	25 kA
protection level	
<ul style="list-style-type: none"> <li>• between L and N</li> </ul>	1.6 kV
<ul style="list-style-type: none"> <li>• between L and PE</li> </ul>	1.9 kV
<ul style="list-style-type: none"> <li>• between N and L</li> </ul>	1.4 kV
<ul style="list-style-type: none"> <li>• between N and PE</li> </ul>	1.5 kV
<ul style="list-style-type: none"> <li>• between PE and N and/or L</li> </ul>	1.5 kV
residual voltage	
<ul style="list-style-type: none"> <li>• between L and (PE)N <ul style="list-style-type: none"> <li>— at rated value of discharge current / maximum</li> <li>— at 10 kA / maximum</li> <li>— at 5 kA / maximum</li> <li>— at 3 kA / maximum</li> </ul> </li> </ul>	1.6 kV 1.5 kV 1.3 kV 1.1 kV
<ul style="list-style-type: none"> <li>• between L and PE <ul style="list-style-type: none"> <li>— at rated value of discharge current / maximum</li> <li>— at 10 kA / maximum</li> <li>— at 5 kA / maximum</li> <li>— at 3 kA / maximum</li> </ul> </li> </ul>	1.9 kV 1.5 kV 1.3 kV 1.2 kV
<ul style="list-style-type: none"> <li>• between N and PE <ul style="list-style-type: none"> <li>— at rated value of discharge current / maximum</li> <li>— at 10 kA / maximum</li> <li>— at 5 kA / maximum</li> <li>— at 3 kA / maximum</li> </ul> </li> </ul>	0.4 kV 0.25 kV 0.15 kV 0.1 kV
response value of the surge voltage / at 6 kV / at (1.2/50) $\mu$ s	
<ul style="list-style-type: none"> <li>• between N and PE</li> </ul>	1.5 kV
<ul style="list-style-type: none"> <li>• response time / between L and (PE)N</li> </ul>	25 ns
<ul style="list-style-type: none"> <li>• response time / between N and PE</li> </ul>	100 ns
adjustable response factor / of tripping 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 $\Omega$
<b>Connections/ Terminals</b>	
type of electrical connection	Screw terminal
stripped length	16 mm
tightening torque	4.3 ... 4.7
stripped length	16 mm
connectable conductor cross-section	
<ul style="list-style-type: none"> <li>• for finely stranded conductor</li> </ul>	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
<b>NEMA/UL - Data</b>	
type of distribution system	TT, TN-S
TOV behavior	

- at TOV test voltage (L-N)

415 V AC (5 s / withstand mode) / 440 V AC (120 min / safe failure mode)

- at TOV test voltage (N-PE)

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?mlfb=5SD7464-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SD7464-0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SD7464-0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SD7464-0)

