



Surge arrester, Type 2, pluggable protective modules, UC 800 V AC, 1-pole, Varistor connected in series and gas-filled spark gap with remote signaling

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	1
designation of the protective paths	L-PEN, L-PE
Accessories	1 x 5SD7488-2 + 1 x 5SD7488-4
fastening method	DIN rail NS 35
material / of the enclosure	PA 6.6 / PBT
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	35.6 mm
Height	97 mm
depth	71.5 mm
net weight	388 g
Electrical data	
type of distribution system	TN-C, IT
operating voltage	400 / 690 V AC ...90 V AC (IT)
operating voltage	690 V
operating frequency	50/60 Hz
continuous operating voltage	
• maximum	800 V
load current	80 A

protective conductor current	3 µA (760 V AC)
apparent power consumption / maximum	3 mVA
discharge current	
• at (8/20) µs	15 kA
• 1 phase / at (8/20) µs	30 kA
short-circuit rating (SCCR) / at 264 V	25 kA
protection level	
• maximum	5 kV
residual voltage	
• at rated value of discharge current / maximum	3 kV
• at 10 kA / maximum	2.6 kV
• at 5 kA / maximum	2.4 kV
• at 3 kA / maximum	2.3 kV
response value of the surge voltage / at 6 kV / at (1.2/50) µs	5 kV
• Response time	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	100 A AC (gG)
Connections/ Terminals	
type of electrical connection	Screw terminal
stripped length	16 mm
tightening torque	4.3 ... 4.7
stripped length	16 mm
connectable conductor cross-section	
• for finely stranded conductor	1.5 ... 25
• for rigid conductor	1.5 ... 35
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
operational current / of the remote signaling contacts	
• at AC	5 mA ... 1.5 A
• at DC	1 A DC (30 V DC)
connection type of remote signaling contact	M2
connectable conductor cross-section	
• for remote signaling contacts / for rigid conductor	0.14 ... 1.5
• for finely stranded conductor / for remote signaling contacts	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
stripped length / of the cable / for remote signaling contacts	7 mm
NEMA/UL - Data	
type of distribution system	TN-C, IT
TOV behavior	
• at TOV test voltage	1550 V AC (5 s / withstand mode)
combustibility class acc. to UL 94	V0
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=5SD7481-1>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SD7481-1>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SD7481-1

