



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 / according 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 5SD7468-0
fastening method	DIN rail NS 35
material / of the enclosure	PA 6.6 / PBT
size of surge arrester	4 TE
degree of pollution	2
overvoltage category / according 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
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	
• at AC	230 V
value range / of the operating frequency	50 / 60 Hz
continuous operating voltage	
• at AC / maximum	350 V
• between N and PE / at AC / maximum	260 V
• between L and (PE)N / at AC / maximum	350 V
apparent power consumption / maximum	450 mVA
discharge current / at (8/20) µs	20 kA
discharge current / 1 phase / at (8/20) µs / maximum	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 / maximum	1.6 kV
• between L and PE / maximum	1.9 kV
• between N and L	1.4 kV
• between N and PE / maximum	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) µs	
• between N and PE	1.5 kV
• response time / between L and (PE)N	25 ns
• response time / between N and PE	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 MΩ
Connections/ Terminals	
type of electrical connection	Screw terminal
stripped length	16 mm
tightening torque	4.3 ... 4.7 N·m
connectable conductor cross-section	
• for finely stranded conductor	1.5 ... 25 mm²
• for rigid conductor	1.5 ... 35 mm²
• finely stranded	0.5 ... 25 mm²
AWG number / as coded connectable conductor cross section	15 ... 2
design of the thread / of the connection screw	M5
signal design	optical
Indicator/remote signaling	
product component / remote signaling contact	No
NEMA/UL - Data	
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)
ambient temperature	
• during operation	-40 ... +80 °C
• during storage	-40 ... +80 °C
combustibility class according to UL 94	V-0
Further information	
Information on the packaging	
https://support.industry.siemens.com/cs/ww/en/view/109813875	
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	



