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Data sheet 5SD7461-1

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

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-N
Accessories	1 x 5SD7468-1
fastening method	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 / 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	17.8 mm
Height	97 mm
depth	71.5 mm
net weight	116 g
Electrical data	
type of distribution system	TN, TT
operating voltage	240 / 415 V AC
operating voltage	230 V
operating frequency	50/60 Hz
continuous operating voltage	
● maximum	350 V

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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
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)
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
● 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
operational 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	
● 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, TT
TOV behavior	
● at TOV test voltage	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,…)

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Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SD7461-1
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/5SD7461-1
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SD7461-1

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