SIEMENS

Data sheet 5SD7483-5

Surge arrester, Type 2, pluggable protective modules, UC 750V AC, 3-pole, for 4-wire networks (L1, L2, L3, pen), 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	3
designation of the protective paths	L-PEN, L-PE
Accessories	3 x 5SD7488-2
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	53.4 mm
Height	99 mm
depth	71.5 mm
net weight	355 g
Electrical data	
type of distribution system	TN-C, IT
operating voltage	554 / 960 V AC ...90 V AC (IT)
operating voltage	690 V
operating frequency	50/60 Hz
continuous operating voltage	
● maximum	760 V
load current	80 A

protective conductor current	1.5 mA (760 V AC)
apparent power consumption / maximum	1 200 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	2.9 kV
residual voltage	
● at rated value of discharge current / maximum	2.9 kV
● at 10 kA / maximum	2.7 kV
● at 5 kA / maximum	2.5 kV
● at 3 kA / maximum	2.3 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	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 surge protective device (SPD) / according to UL	Type 4 SPD for Type 2 applications
type of distribution system / according to UL	3D
type of distribution system	TN-C, IT
designation of the protective paths / according to UL	L-L, L-G
TOV behavior	
● at TOV test voltage	1000 V AC (5 s / withstand mode)
Measured Limiting Voltage (MLV) / between L and L	4 kV
Measured Limiting Voltage (MLV) / between L and Ground (GND)	2.5 kV

Maximum Continuous Operating Voltage (MCOV) / between L and Ground (GND)	750 V
leakage current / according to UL	10 kA
AWG number / as coded connectable conductor cross section / for remote signaling contacts / according to UL / minimum	30
AWG number / as coded connectable conductor cross section / for remote signaling contacts / according to UL / maximum	14
installation altitude above sea level / according to UL	6 562 ft
gross weight [lb] / according to UL	0.86 lb
net weight [lb] / according to UL	0.78 lb
combustibility class acc. to UL 94	V0
operating voltage / of the remote signaling contacts / according to UL	125 V
operational current / of the remote signaling contacts / at AC / according to UL	1 A
AWG number / as coded connectable conductor cross section / according to UL / minimum	10
AWG number / as coded connectable conductor cross section / according to UL / maximum	2

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=5SD7483-5
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/5SD7483-5
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SD7483-5