SIEMENS

Data sheet 5SD7481-0



surge arrester type, 2, requirement class C, Uc 260 V, protective modules, plug-in, 1-pole, N-PE circuit

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	N/PE
designation of the protective paths	N-PE
accessories	1 x 5SD7488-0
fastening method	TH35 DIN rail
material of the enclosure	PA 6.6
size of surge arrester	1 MW
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	17.8 mm
height	90 mm
depth	71.5 mm
Electrical data	
type of distribution system	TN, TT
operating voltage	
● at AC	230 V
value range of the operating frequency	50 / 60 Hz
continuous operating voltage	
● at AC maximum	260 V
apparent power consumption maximum	1.5 mVA
discharge current at (8/20) µs	20 kA
discharge current 1 phase at (8/20) µs maximum	40 kA
follow current extinguishing capability	100 A (260 V AC)
● between N and PE	100 A (260 V)
protection level	1 kV

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● maximum	1.5 kV
residual voltage	
● 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 N and PE	100 ns
adjustable response factor of tripping current	1.6
fuse protection type at V-shaped connection	80 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, remote signaling contact
Indicator/remote signaling	
product component remote signaling contact	No
NEMA/UL - Data	
type of distribution system	TN, TT
ambient temperature	
● during operation	-40 ... +80 °C
● during storage	-40 ... +80 °C
combustibility class according to UL 94	V-0

Approvals Certificates

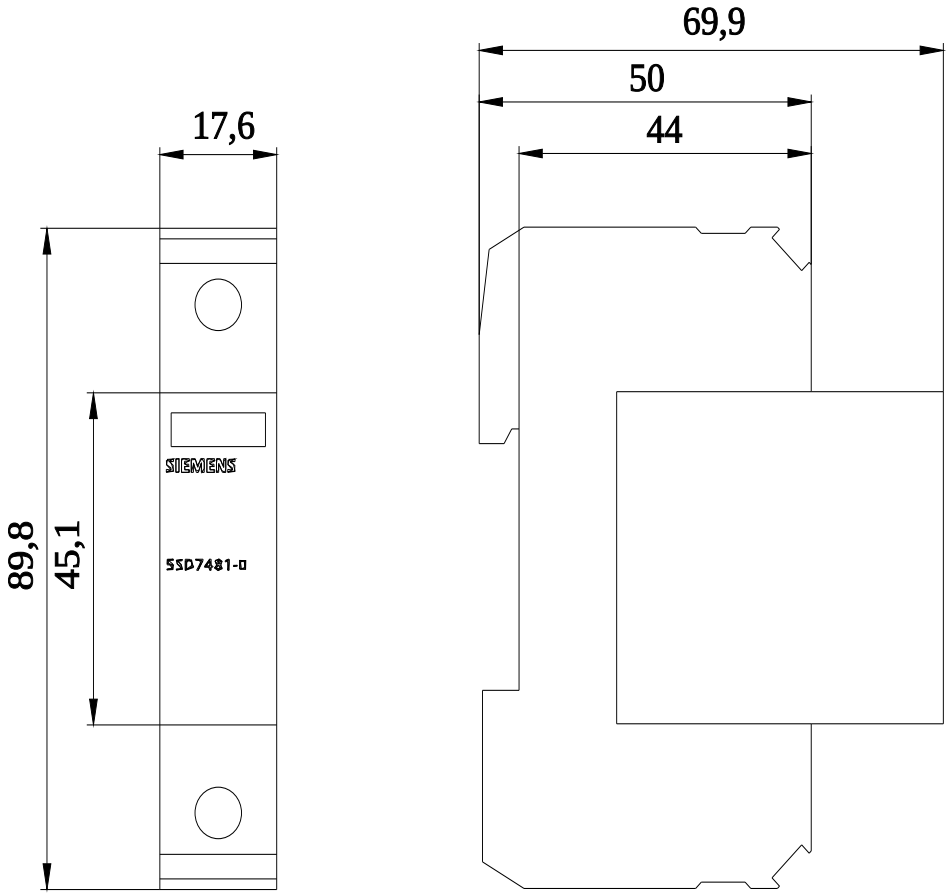
General Product Approval				other	
KEMA	EAC	Confirmation	CE EG-Konf.	Miscellaneous	Confirmation

other	Environment	
产品合格 QC PASS	Environmental Con-firmations	Environmental Con-firmations

Further information

Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information for data generation and storage
https://support.industry.siemens.com/cs/ww/en/view/109995012
Information- and Downloadcenter (Catalogs, Brochures,…)
https://www.siemens.com/lowvoltage/catalogs
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SD7481-0
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/5SD7481-0
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SD7481-0
CAx-Online-Generator
https://www.siemens.com/cax

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last modified: 9/4/2026

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