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Data sheet 5SD7464-1



surge arrester type, 2, requirement class C, Uc 350 V, protective modules, plug-in, 4-pole, 3+1 circuit for TN-S and TT systems, with remote display

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 5SD7488-0
fastening method	TH35 DIN rail
material of the enclosure	PA 6.6 / PBT
size of surge arrester	4 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	71.5 mm
height	99 mm
depth	71.5 mm
Electrical data	
type of distribution system	TN-S, TT
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	

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● 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, remote signaling contact
Indicator/remote signaling	
product component remote signaling contact	Yes
switching function of the remote signaling contacts	PDT contact
operating voltage of the remote signaling contacts at AC	5 ... 250 V
operational current of the remote signaling contacts at AC	5 mA ... 1 A
connection type of remote signaling contact	M2
connectable conductor cross-section for remote signaling contacts for rigid conductor	0.14 ... 1.5 mm²
connectable conductor cross-section for remote signaling contacts for finely stranded conductor	0.14 ... 1.5 mm²
AWG number as coded connectable conductor cross section for remote signaling contacts	28 ... 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-S, TT

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ambient temperature	
● during operation	-40 ... +80 °C
● during storage	-40 ... +80 °C
combustibility class according to UL 94	V-0

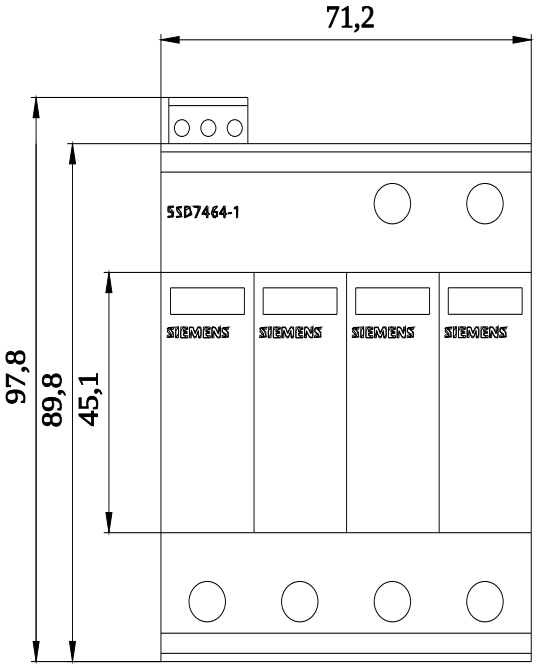
Approvals Certificates

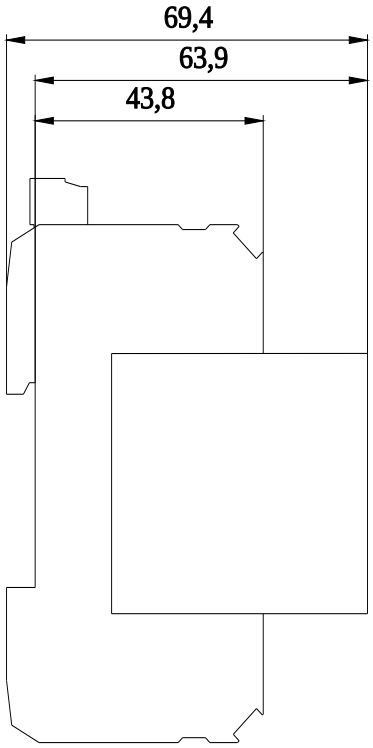
General Product Approval				other	
KEMA	EAC	Confirmation	CE EG-Konf.	Miscellaneous	Confirmation

other	Environment	
产品合格 QC PASS	Environmental Confirmations	Environmental Confirmations

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=5SD7464-1
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/5SD7464-1
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SD7464-1
CAx-Online-Generator
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