SIEMENS

Data sheet

5SD7422-0



Surge arrester Type 2 Requirement class C, UC 350V Pluggable protective modules 2-pole, 1+1 circuit for TN-S and TT systems Narrow design

standardIEC 61643-11: 2011, EN 6164product designationSurge protection deviceSPD classification according to EN 61643-11No• Test Class I, Type 1No• Test Class II, Type 2Yes	13-11: 2012
SPD classification according to EN 61643-11 No • Test Class I, Type 1 No • Test Class II, Type 2 Yes	
Test Class I, Type 1 No Test Class II, Type 2 Yes	
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 1+N/PE	
designation of the protective paths L-N, N-PE	
accessories 1 x 5SD7428-1 + 1 x 5SD7428	8-0
fastening method DIN rail NS 35	
material of the enclosure PBT	
size of surge arrester 1,4 MW	
degree of pollution 2	
overvoltage category according to IEC 61010-1 III	
protection class IP at connection all terminals IP20	
shock acceleration 30 gn	
vibrational acceleration at 5 Hz 500 Hz limited to 2,5 h per 5 gn axis	
relative humidity during operation 5 95 %	
installation altitude at height above sea level maximum 2 000 m	
width 25.4 mm	
height 90 mm	
depth 71.5 mm	
net weight 228 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 264 V	
• between L and (PE)N at AC maximum 350 V	
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 (264 V a.c.)	

short-circuit rating (SCCR) at 264 V	25 kA
protection level	
• maximum	1.5 kV
 between N and L 	1.4 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 	1.5 kV
— at 10 kA maximum	1.3 kV
— at 5 kA maximum	1.2 kV
— at 4 kA maximum	1.1 kV
— at 2 kA maximum	1 KV
between N and PE	
— at rated value of discharge current maximum	0.5 kV
— at 10 kA maximum	0.5 kV
— at 5 kA maximum	0.5 kV
— at 4 kA maximum	0.5 kV
— at 2 kA maximum	0.5 kV
response value of the surge voltage at 6 kV at (1.2/50) μs	
between N and PE	1.5 kV
a reasonable time between L and (DE)NL	25 no
response time between L and (PE)N	25 ns
response time between N and PE	100 ns
adjustable response factor of tripping current fuse protection type at V-shaped connection	1.6 63 A AC (gG)
fuse protection type for T-connector	315 A AC (gG)
Connections/ Terminals	515 A AC (gG)
type of electrical connection	Screw terminal
stripped length	16 mm
tightening torque	4.3 4.7 N·m
connectable conductor cross-section	T.U T./ IVIII
for finely stranded conductor	2.5 16 mm²
for rigid conductor	2.5 25 mm ²
finely stranded	2.5 16 mm ²
AWG number as coded connectable conductor cross section	12 4
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 surge protective device (SPD) according to UL	4CA
type of distribution system according to UL	1
type of distribution system	TT, TN-S
designation of the protective paths according to UL	L-N, L-G, N-G
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)
Measured Limiting Voltage (MLV)	
• between L and Ground (GND)	2.08 kV
between L and N	2 kV
 between N and Ground (GND) 	0.95 kV
Maximum Continuous Operating Voltage (MCOV)	
between L and Ground (GND)	350 V
between L and N	350 V
	0041/
 between N and Ground (GND) 	264 V
between N and Ground (GND) discharge current	264 V
	20 kA
discharge currentbetween N and Ground (GND) according to UL rated	
	350 V

AWG number as coded connectable conductor cross section	
 according to UL 	14 2
ambient temperature	
during operation	-40 +80 °C
during storage	-40 +80 °C
installation altitude above sea level according to UL	6 562 ft
gross weight [lb] according to UL	0.49 lb
net weight [lb] according to UL	0.44 lb
combustibility class according to UL 94	VO
standards according to UL	UL 1449 edition 4
Approvals Certificates	

General Product Approval

Confirmation









other			Environment	
<u>Miscellaneous</u>	Confirmation	Miscellaneous	Environmental Con- firmations	Environmental Con- firmations

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/catalog

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SD7422-0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

CE EG-Konf.

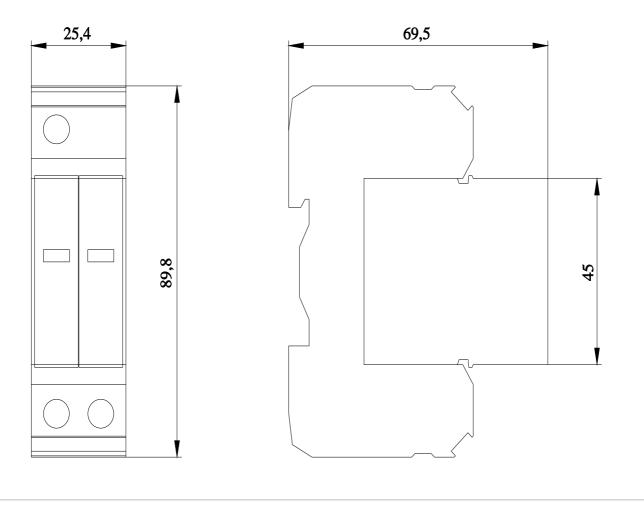
https://support.industry.siemens.com/cs/ww/en/ps/5SD7422-0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SD7422-0

CAx-Online-Generator

http://www.siemens.com/cax



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