



Combination arrester type 1+2 Requirement class B+C, UC 350V Pluggable protective modules 3-pole, 3+0 circuit for TNC 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	Yes
• Test Class II, Type 2	Yes
• Test Class III, Type 3	No
number of SPD ports	1
design of the product	Arrester combination
design of pole	3
designation of the protective paths	L-PEN
accessories	3 x 5SD7428-1 + 3 x 5SD7448-1
fastening method	DIN rail NS 35
material of the enclosure	PBT
size of surge arrester	6MW
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	106.9 mm
height	95 mm
depth	71.5 mm
net weight	943 g
Electrical data	
type of distribution system	TN-C
operating voltage	
• at AC	230 V
value range of the operating frequency	50 / 60 Hz
continuous operating voltage	
• at AC maximum	350 V
apparent power consumption maximum	300 mVA
discharge current at (8/20) µs	25 kA
lightning current peak value at (10/350) µs	25 kA
charge of the flash at (10/350) µs	12.5 A·s
specific energy of the flash at (10/350) µs	160
follow current extinguishing capability	25 kA (264 V AC), 3 kA (350 V AC)

short-circuit rating (SCCR) at 264 V	25 kA
protection level	
• maximum	1.5 kV
residual voltage	
• at rated value of discharge current maximum	1.5 kV
• at 10 kA maximum	1.2 kV
• at 5 kA maximum	1 kV
• at 3 kA maximum	0.9 kV
response value of the surge voltage at 6 kV at (1.2/50) µs	1.5 kV
• Response time	25 ns
adjustable response factor of tripping current	1.6
fuse protection type at V-shaped connection	125 A AC (gG)
fuse protection type for T-conductor	315 A AC (gG)
Connections/ Terminals	
type of electrical connection	Screw terminal
stripped length	18 mm
tightening torque	4.3 ... 4.7 N·m
connectable conductor cross-section	
• for finely stranded conductor	2.5 ... 25 mm²
• for rigid conductor	2.5 ... 35 mm²
• finely stranded	2.5 ... 25 mm²
AWG number as coded connectable conductor cross section	13 ... 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	12 ... 250 V
operational current of the remote signaling contacts at AC	10 mA ... 1 A
connection type of remote signaling contact	M2 screw thread
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 surge protective device (SPD) according to UL	4CA
type of distribution system according to UL	3D
type of distribution system	TN-C
designation of the protective paths according to UL	L-L, L-G
TOV behavior	
• at TOV test voltage	415 V AC (5 s / withstand mode) / 457 V AC (120 min / safe failure mode)
Measured Limiting Voltage (MLV)	
• between L and L	2.45 kV
• between L and Ground (GND)	1.34 kV
Maximum Continuous Operating Voltage (MCOV)	
• between L and L	528 V
• between L and Ground (GND)	264 V
discharge current	
• between L and Ground (GND) according to UL rated value	20 kA
• between L and L according to UL rated value	20 kA
AWG number as coded connectable conductor cross section	
• according to UL	12 ... 2
• for remote signaling contacts according to UL	30 ... 14
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
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	2.45 lb
net weight [lb] according to UL	2.08 lb
combustibility class according to UL 94	V0
standards according to UL	UL 1449 edition 4

Approvals Certificates

General Product Approval



[Confirmation](#)



other	Environment
Confirmation	Miscellaneous
	Environmental Confirmations
	Environmental Confirmations

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/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SD7443-1>

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

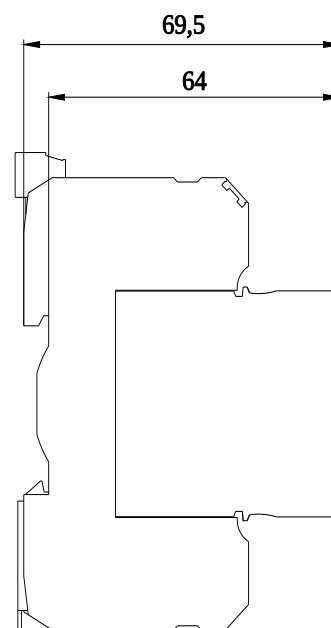
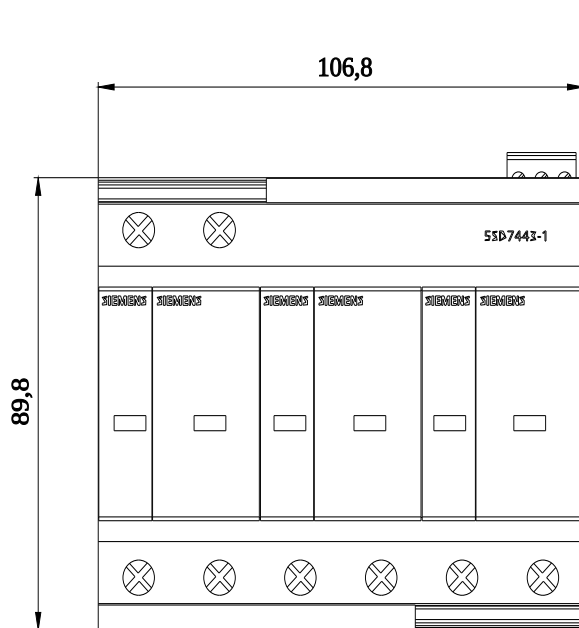
<https://support.industry.siemens.com/cs/ww/en/ps/5SD7443-1>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SD7443-1

CAX-Online-Generator

<http://www.siemens.com/cax>



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