SIEMENS

Data sheet 5SD7432-1

Type 3 surge arrester Requirement class D Rated voltage UN 230 V UC 253V AC, 2-pole for 1-phase power supply



Article number

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	No
• Test Class III, Type 3	Yes
Number of SPD ports	1
Product version	Surge arrester
Design of pole	2
Designation of the protective paths	L-N, L-PE, N-PE, (L+)-(L-), (L+/L-)-PE
Mounting type	DIN rail NS 35
Material / of the enclosure	PA 6.6-FR
Size of surge arrester	1WM
Degree of pollution	2
Overvoltage category / acc. to IEC 61010-1	III
Protection class IP / at connection all terminals	IP20
Shock acceleration	30 gn

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Vibrational acceleration / at 5 Hz ... 500 Hz / limited to 2,5 h / per axis	5 gn
Ambient temperature / during operation	-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	17.7 mm
Height	90 mm
Depth	70.9 mm
Net weight	78 g

Electrical data

Type of distribution system	TT, TN-S
Operating voltage	230 V AC
Operating voltage	230 V
Operating frequency	50/60 Hz
Continuous operating voltage	
• maximum	264 V
• maximum	230 V
Load current	26 A (30 °C)
Protective conductor current	5 µA (255 V AC)
Apparent power consumption / maximum	300 mVA
Discharge current	
• at (8/20) µs	3 kA
Short-circuit rating (SCCR) / at 264 V	1.5 kA
Protection level	
• between L and N	1.35 kV
• between L and PE	1.5 kV
• between N and L	1.5 kV
• between N and PE	1.5 kV
• between PE and N and/or L	1.5 kV
Response time	
• between L and (PE)N	25 ns
• between N and PE	100 ns
Settable response factor / of trip current	1.6
Fuse protection type / at V-shaped connection	25 A (gG / B / C)
Insulation resistance (Riso)	5 MΩ
MPP voltage	230 V

Connections/ Terminals

Type of electrical connection	Screw terminal
Wire stripping length	8 mm
Tightening torque	0.75 ... 0.85

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Wire stripping length	8 mm
Connectable conductor cross-section	
• for finely stranded conductor	0.2 ... 2.5
• for rigid conductor	0.2 ... 4
• finely stranded	0.2 ... 2.5
AWG number / as coded connectable conductor cross section	24 ... 12
Design of the thread / of the connection screw	M3
Signal design	Defect signaling contact

Indicator/remote signaling

Switching function / of the remote-signaling contacts	N/C contact
Operating voltage / of the remote-signaling contacts	
• at AC	250 ... 250
• at DC	125 V (200 mA DC)
Operating current / of the remote-signaling contacts	
• at AC	3 mA ... 3 A
• at DC	1 A DC (30 V DC)
Connection type of remote signaling contact	M3
Connectable conductor cross-section	
• for remote signaling contacts / for rigid conductor	0.2 ... 4
• for finely stranded conductor / for remote signaling contacts	0.2 ... 2.5
Tightening torque / for remote signaling contacts	0.8 N·m
Wire stripping length / of the cable / for remote signaling contacts	8 mm

NEMA/UL - Data

Type of distribution system	TT, TN-S
TOV behavior	
• at TOV test voltage	440 V AC (120 min / withstand mode)
• at TOV test voltage (L-N)	440 V AC (5 s / withstand mode) / 440 V AV AC (120 min / withstand mode)
• at TOV test voltage (N-PE)	1200 V (200 ms / withstand mode)
Combustibility class acc. to UL 94	V0
AWG number / as coded connectable conductor cross section / according to UL / minimum	24
AWG number / as coded connectable conductor cross section / according to UL / maximum	12

Further information

Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/lowvoltage/catalogs

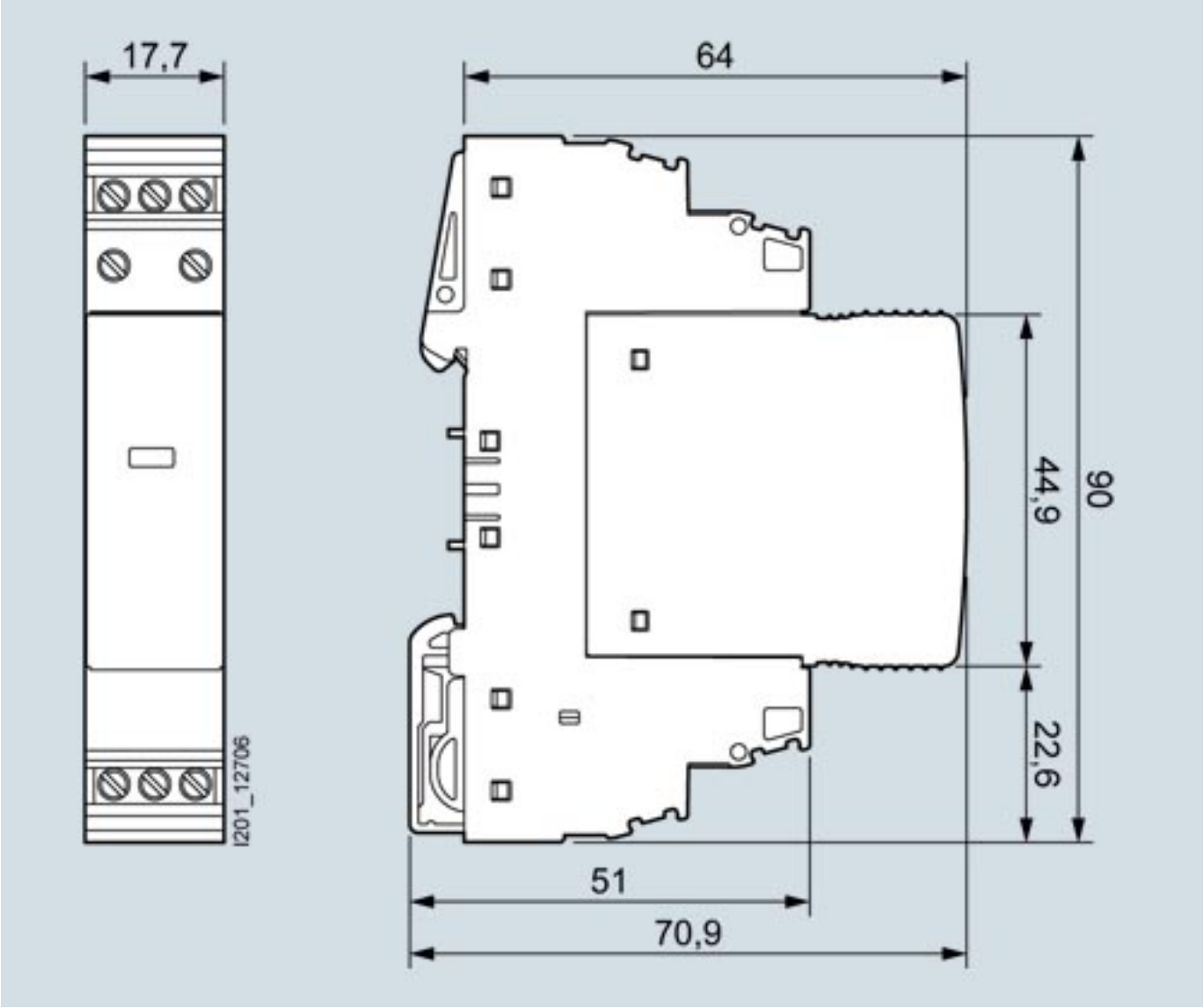
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SD7432-1

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Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/5SD7432-1

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SD7432-1

CAx-Online-Generator
http://www.siemens.com/cax



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