



SPD type 3, $U_n=120\text{ V AC}/150\text{ V DC}$, $U_c=150\text{ V AC/DC}$, $U_{OC} = 2\text{ kV}$, 2-pole, with remote signaling, width 17.7 mm

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	No
• Test Class III, Type 3	Yes
number of SPD ports	1
design of the product	Surge arrester
design of pole	2
designation of the protective paths	L-N, L-PE, N-PE, (L+)-(L-), (L+/L-)-PE
fastening method	TH35 DIN rail
material of the enclosure	PA 6.6-FR
size of surge arrester	1WM
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 axis	5 gn
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	74.5 mm
net weight	117 g
Electrical data	
type of distribution system	TT, TN-S
operating voltage	
• at AC	120 V
value range of the operating frequency	50 / 60 Hz
continuous operating voltage	
• at AC maximum	150 V
• at DC maximum	150 V
apparent power consumption maximum	13.5 mVA
discharge current at (8/20) μ s	5 kA
short-circuit rating (SCCR) at 264 V	10 kA
protection level	
• between L and N maximum	1.95 kV

<ul style="list-style-type: none"> • between L and PE maximum 	0.85 kV
<ul style="list-style-type: none"> • between N and L 	0.75 kV
<ul style="list-style-type: none"> • between N and PE maximum 	0.85 kV
<ul style="list-style-type: none"> • between PE and N and/or L 	0.85 kV
<ul style="list-style-type: none"> • response time between L and (PE)N 	25 ns
<ul style="list-style-type: none"> • response time between N and PE 	100 ns
adjustable response factor of tripping current	1.6
fuse protection type at V-shaped connection	25 A (gG / B / C)
insulation resistance (Riso)	5 MΩ
MPP voltage	150 V

Connections/ Terminals

type of electrical connection	Screw terminal
stripped length	10 mm
tightening torque	0.5 ... 0.5 N·m
connectable conductor cross-section	
<ul style="list-style-type: none"> • for finely stranded conductor 	0.2 ... 2.5 mm ²
<ul style="list-style-type: none"> • for rigid conductor 	0.2 ... 4 mm ²
<ul style="list-style-type: none"> • finely stranded 	0.2 ... 2.5 mm ²
AWG number as coded connectable conductor cross section	30 ... 12
design of the thread of the connection screw	M3
signal design	Defect signaling contact

Indicator/remote signaling

product component remote signaling contact	Yes
switching function of the remote signaling contacts	N/C contact
operating voltage of the remote signaling contacts at AC	250 ... 250 V
operational current of the remote signaling contacts at AC	0.5 mA ... 0.5 A
connection type of remote signaling contact	M3
connectable conductor cross-section for remote signaling contacts for rigid conductor	0.2 ... 4 mm ²
connectable conductor cross-section for remote signaling contacts for finely stranded conductor	0.2 ... 2.5 mm ²
tightening torque for remote signaling contacts	0.5 N·m
stripped length of the cable for remote signaling contacts	10 mm

NEMA/UL - Data

type of distribution system	TT, TN-S
TOV behavior	
<ul style="list-style-type: none"> • at TOV test voltage 	240 V AC (120 min / withstand mode)
<ul style="list-style-type: none"> • at TOV test voltage (L-N) 	240 V AC (5 s / withstand mode) / 240 V AC (120 min / withstand mode)
<ul style="list-style-type: none"> • at TOV test voltage (N-PE) 	1200 V (200 ms / withstand mode)
AWG number as coded connectable conductor cross section	
<ul style="list-style-type: none"> • according to UL 	16 ... 12
ambient temperature	
<ul style="list-style-type: none"> • during operation 	-40 ... +80 °C
<ul style="list-style-type: none"> • during storage 	-40 ... +80 °C
combustibility class according to UL 94	V0

Approvals Certificates

General Product Approval	other
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[Confirmation](#)

Environment

[Environmental Con-
firmations](#)

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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=5SD7432-6>

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

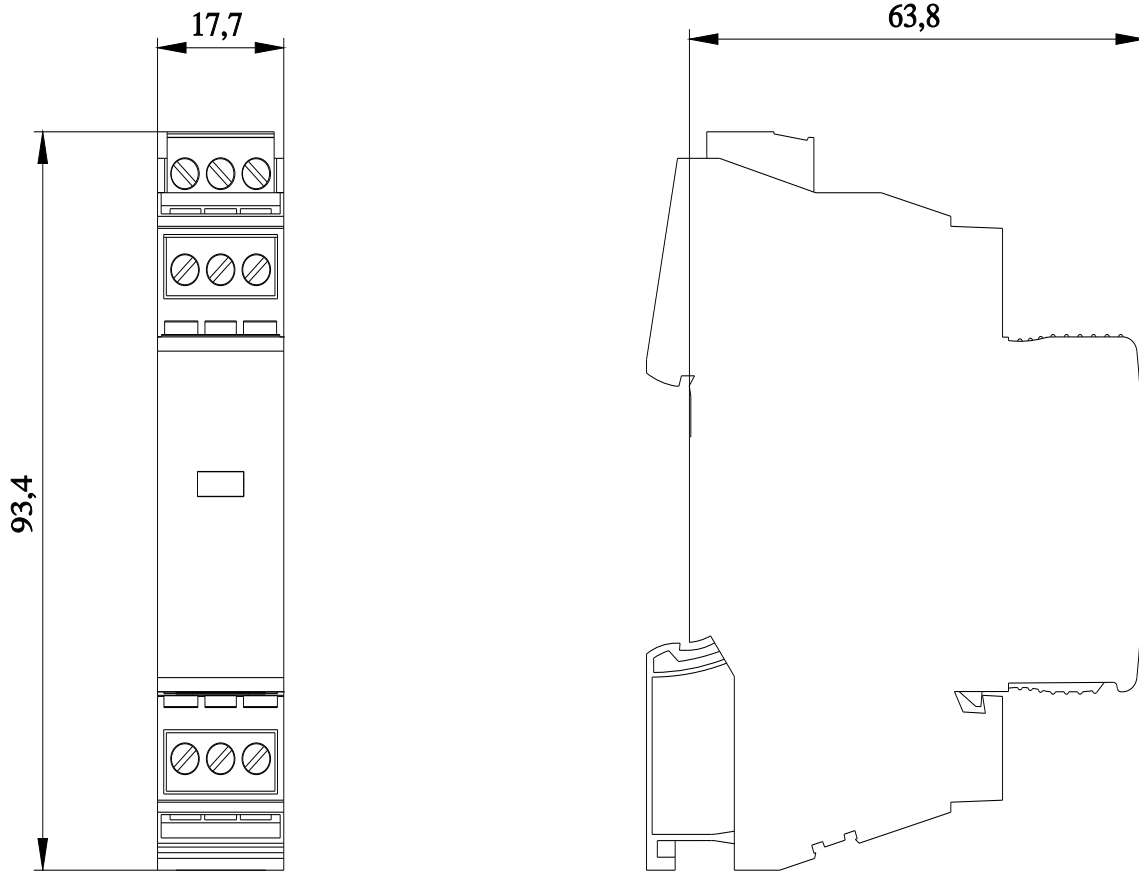
<https://support.industry.siemens.com/cs/ww/en/ps/5SD7432-6>

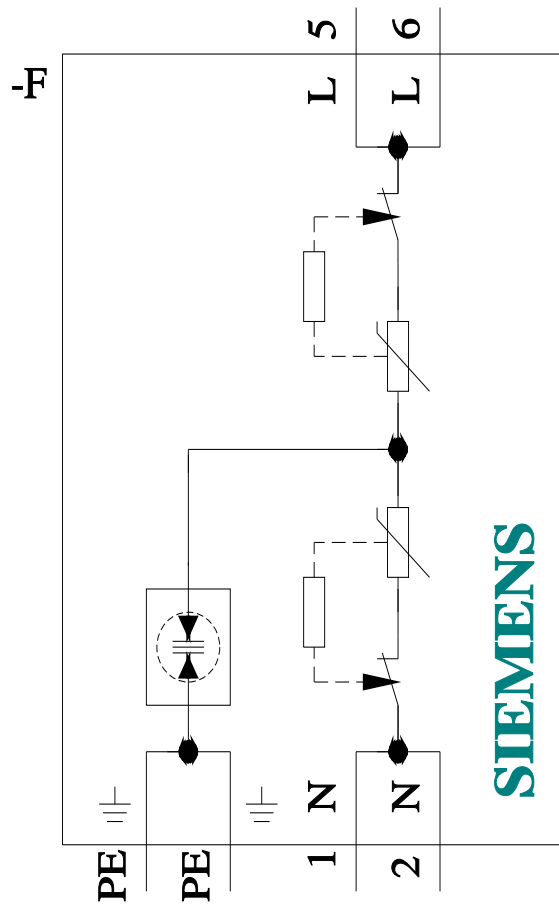
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SD7432-6

CAX-Online-Generator

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





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