



Surge arrester T2, UN 240/400 V, UC 350/264 V AC, pluggable protective module, 3+1 circuit (TN-S, TT), Width 49.2 mm

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	Yes
• Test Class III, Type 3	No
number of SPD ports	1
Product version	Surge arrester
design of pole	3+N/PE
designation of the protective paths	L-N, N-PE
Accessories	3 x 5SD7428-1 + 1 x 5SD7428-2
fastening method	DIN rail NS 35
material / of the enclosure	PA 6.6 / PBT
size of surge arrester	2,7 MW
Degree of pollution	2
overvoltage category / acc. 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
Ambient temperature / during operation / minimum permissible ... ambient temperature / during operation / maximum permissible	-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	49.2 mm
Height	98 mm
depth	71.5 mm
net weight	394 g
Electrical data	
type of distribution system	TT, TN-S
operating voltage	230 / 400 V AC
operating voltage	230 V
operating frequency	50/60 Hz
continuous operating voltage	
• maximum	350 V

<ul style="list-style-type: none"> <li>• between N and PE</li> </ul>	264 V
<ul style="list-style-type: none"> <li>• between L and PE</li> </ul>	350 V
<ul style="list-style-type: none"> <li>• between L and (PE)N</li> </ul>	350 V
load current	40 A
protective conductor current	1 µA (264 V AC)
discharge current	
<ul style="list-style-type: none"> <li>• between L and (PE)N / at (8/20) µs</li> </ul>	20 kA
<ul style="list-style-type: none"> <li>• between L and N / at (8/20) µs</li> </ul>	40 kA
<ul style="list-style-type: none"> <li>• between L and PE / at (8/20) µs</li> </ul>	40 kA
<ul style="list-style-type: none"> <li>• between L and PE / at (8/20) µs</li> </ul>	20 kA
<ul style="list-style-type: none"> <li>• between N and PE / at (8/20) µs</li> </ul>	80 kA
<ul style="list-style-type: none"> <li>• between N and PE / at (8/20) µs</li> </ul>	40 kA
follow current extinguishing capability	
<ul style="list-style-type: none"> <li>• between N and PE</li> </ul>	100 A (264 V a.c.)
short-circuit rating (SCCR) / at 264 V	25 kA
protection level	
<ul style="list-style-type: none"> <li>• between L and N</li> </ul>	1.5 kV
<ul style="list-style-type: none"> <li>• between L and PE</li> </ul>	1.9 kV
<ul style="list-style-type: none"> <li>• between N and PE</li> </ul>	1.5 kV
residual voltage	
<ul style="list-style-type: none"> <li>• between L and (PE)N <ul style="list-style-type: none"> <li>— at rated value of discharge current / maximum</li> <li>— at 10 kA / maximum</li> <li>— at 5 kA / maximum</li> <li>— at 4 kA / maximum</li> <li>— at 2 kA / maximum</li> </ul> </li> </ul>	1.5 kV
	1.3 kV
	1.2 kV
	1.1 kV
	1 kV
<ul style="list-style-type: none"> <li>• between N and PE <ul style="list-style-type: none"> <li>— at rated value of discharge current / maximum</li> <li>— at 10 kA / maximum</li> <li>— at 5 kA / maximum</li> <li>— at 4 kA / maximum</li> <li>— at 2 kA / maximum</li> </ul> </li> </ul>	0.7 kV
	0.7 kV
	0.7 kV
	0.7 kV
	0.7 kV
	0.7 kV
response value of the surge voltage / at 6 kV / at (1.2/50) µs	
<ul style="list-style-type: none"> <li>• between N and PE</li> </ul>	1.5 kV
<ul style="list-style-type: none"> <li>• response time / between L and (PE)N</li> </ul>	25 ns
<ul style="list-style-type: none"> <li>• response time / between N and PE</li> </ul>	100 ns
adjustable response factor / of tripping current	1.6
fuse protection type / at V-shaped connection	40 A AC (gG)
fuse protection type / for T-connector	315 A AC (gG)
<b>Connections/ Terminals</b>	
type of electrical connection	Screw terminal
stripped length	16 mm
tightening torque	4.3 ... 4.7
stripped length	16 mm
connectable conductor cross-section	
<ul style="list-style-type: none"> <li>• for finely stranded conductor</li> </ul>	2.5 ... 16
<ul style="list-style-type: none"> <li>• for rigid conductor</li> </ul>	2.5 ... 25
AWG number / as coded connectable conductor cross section	12 ... 4
design of the thread / of the connection screw	M5
signal design	Optical, remote signaling contact
<b>Indicator/remote signaling</b>	
switching function / of the remote signaling contacts	PDT contact
operating voltage / of the remote signaling contacts	
<ul style="list-style-type: none"> <li>• at AC</li> </ul>	5 ... 250
<ul style="list-style-type: none"> <li>• at DC</li> </ul>	125 V (200 mA DC)
operational current / of the remote signaling contacts	

<ul style="list-style-type: none"> <li>• at AC</li> <li>• at DC</li> </ul>	5 mA ... 1 A 1 A
connection type of remote signaling contact	M2
connectable conductor cross-section	
<ul style="list-style-type: none"> <li>• for remote signaling contacts / for rigid conductor</li> <li>• for finely stranded conductor / for remote signaling contacts</li> </ul>	0.14 ... 1.5 0.14 ... 1.5
AWG number / as coded connectable conductor cross section / for remote signaling contacts / minimum	28
AWG number / as coded connectable conductor cross section / for remote signaling contacts / maximum	16
tightening torque / for remote signaling contacts	0.25 N·m
<b>NEMA/UL - Data</b>	
type of distribution system	TT, TN-S
TOV behavior	
<ul style="list-style-type: none"> <li>• at TOV test voltage (L-N)</li> </ul>	415 V AC (5 s / withstand mode) / 457 V AC (120 min / safe failure mode)
<ul style="list-style-type: none"> <li>• at TOV test voltage (N-PE)</li> </ul>	1200 V (200 ms / withstand mode)
combustibility class acc. to UL 94	V0
<b>Further information</b>	

**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=5SD7424-3>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SD7424-3>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SD7424-3](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SD7424-3)

