



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 according 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
design of the product	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 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	49.2 mm
height	90 mm
depth	71.5 mm
net weight	382 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 at AC maximum	350 V
• between L and (PE)N at AC maximum	350 V
discharge current	
• between L and (PE)N at (8/20) µs	20 kA
• between L and N at (8/20) µs	40 kA

<ul style="list-style-type: none"> <li>• between L and PE at (8/20) <math>\mu</math>s</li> <li>• between L and PE at (8/20) <math>\mu</math>s</li> <li>• between N and PE at (8/20) <math>\mu</math>s</li> <li>• between N and PE at (8/20) <math>\mu</math>s</li> </ul>	40 kA 20 kA 80 kA 40 kA		
<b>follow current extinguishing capability</b>			
<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		
<b>protection level</b>			
<ul style="list-style-type: none"> <li>• between L and N maximum</li> <li>• between L and PE maximum</li> <li>• between N and PE maximum</li> </ul>	1.5 kV 1.9 kV 1.5 kV		
<b>residual voltage</b>			
<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> <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>	1.5 kV 1.3 kV 1.2 kV 1.1 kV 1 kV  0.7 kV 0.7 kV 0.7 kV 0.7 kV 0.7 kV		
<b>response value of the surge voltage at 6 kV at (1.2/50) <math>\mu</math>s</b>			
<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> <li>• response time between N and PE</li> </ul>	25 ns 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 N·m		
<b>connectable conductor cross-section</b>			
<ul style="list-style-type: none"> <li>• for finely stranded conductor</li> <li>• for rigid conductor</li> </ul>	2.5 ... 16 mm <sup>2</sup> 2.5 ... 25 mm <sup>2</sup>		
AWG number as coded connectable conductor cross section	12 ... 4		
design of the thread of the connection screw	M5		
signal design	optical		
<b>Indicator/remote signaling</b>			
product component remote signaling contact	No		
<b>NEMA/UL - Data</b>			
type of distribution system	TT, TN-S		
<b>TOV behavior</b>			
<ul style="list-style-type: none"> <li>• at TOV test voltage (L-N)</li> <li>• at TOV test voltage (N-PE)</li> </ul>	415 V AC (5 s / withstand mode) / 457 V AC (120 min / safe failure mode) 1200 V (200 ms / withstand mode)		
<b>ambient temperature</b>			
<ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> </ul>	-40 ... +80 °C -40 ... +80 °C		
combustibility class according to UL 94	V0		
<b>Approvals Certificates</b>			
<table> <tr> <td>General Product Approval</td><td>other</td></tr> </table>		General Product Approval	other
General Product Approval	other		

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other	Environment	
<a href="#">Miscellaneous</a>	<a href="#">Environmental Con- firmations</a>	<a href="#">Environmental Con- firmations</a>

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=5SD7424-2>  
 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)  
<https://support.industry.siemens.com/cs/ww/en/ps/5SD7424-2>  
 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)  
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SD7424-2](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SD7424-2)  
 CAx-Online-Generator  
<http://www.siemens.com/cax>

last modified:

3/20/2024 

