



SURGE PROTECTION FOR ETHERNET INTERFACES  
UP TO 10GBITS, INCLUDED POE

Model		
product brand name		SENTRON
Product designation		Surge protection device
<b>Design of the product</b>		Surge arrester 5SD7 for measuring and control technology
<b>Design of the product / explosion-proof design</b>		No
General technical data		
<b>Break time</b>		
<ul style="list-style-type: none"> <li>• between L and N / for symmetrical circuit</li> </ul>	ns	1
<ul style="list-style-type: none"> <li>• between L or N and PE / for symmetrical circuit</li> </ul>	ns	100
<b>Insertion loss / for symmetrical circuit</b>		
<ul style="list-style-type: none"> <li>• with characteristic wave impedance 100 ohm / up to 5 MHz / typical</li> </ul>	dB	1
<b>Power pulse current / at (10/1000) µs</b>	A	40
<b>Capacity / between switched connecting terminals</b>		
<ul style="list-style-type: none"> <li>• for symmetrical circuit</li> </ul>	nF	0.012
<ul style="list-style-type: none"> <li>• for asymmetrical circuit</li> </ul>	pF	1
<b>Protection level</b>		
<ul style="list-style-type: none"> <li>• with pulse curve shape C2 / at (10 kV/5 kA) / to signal ground / acc. to IEC 61643-21</li> </ul>	V	700
<b>Overvoltage category</b>		II
Voltage		
<b>Continuous operating voltage</b>		
<ul style="list-style-type: none"> <li>• for DC / maximum</li> </ul>	V	3.3
<b>Residual voltage / between L and L</b>		

<ul style="list-style-type: none"> <li>for rated discharge current / for symmetrical circuit</li> </ul>	V	15
<b>Voltage limitation / of the output voltage</b>		
<ul style="list-style-type: none"> <li>between L and L / at rate of voltage rise 1 kV/<math>\mu</math>s / for spike or statistical distribution in relation to danger level / for symmetrical circuit</li> </ul>	V	9
<ul style="list-style-type: none"> <li>between L and PE / for asymmetrical circuit / at rate of voltage rise 1 kV/<math>\mu</math>s / for spike or statistical distribution in relation to danger level</li> </ul>	V	700

#### Protection class

<b>Protection class IP</b>		IP20
----------------------------	--	------

#### Electricity

<b>Discharge current</b>		
<ul style="list-style-type: none"> <li>between L and L / for symmetrical circuit / at (8/20) <math>\mu</math>s / Rated value</li> </ul>	A	100
<ul style="list-style-type: none"> <li>between sum of all L and PE / for asymmetrical circuit / at (8/20) <math>\mu</math>s / Rated value</li> </ul>	kA	2
Consumed current / Rated value	A	1.5
<b>Protection level / between L and N / for symmetrical circuit</b>		
<ul style="list-style-type: none"> <li>with spike / with pulse curve shape C2 / at (10 kV/5 kA) / acc. to IEC 61643-21</li> </ul>	V	700

#### Main circuit

<b>Operating voltage</b>		
<ul style="list-style-type: none"> <li>Rated value / maximum</li> </ul>	V	3.3

#### Product details

Product component / remote-signaling contact		No
--	--	----

#### Product function

Product function / Surge arrester monitoring		No
--	--	----

#### Connections

<b>Type of electrical connection</b>		RJ45
--------------------------------------	--	------

#### Mechanical Design

<b>Height</b>	mm	25
<b>Width</b>	mm	102
<b>Depth</b>	mm	65
Material / of the enclosure		ZnAl4Cu1

#### Environmental conditions

<b>Degree of pollution</b>		2
<b>Ambient temperature</b>		
<ul style="list-style-type: none"> <li>during operation / minimum</li> </ul>	$^{\circ}$ C	40

## Certificates

### Equipment marking

- acc. to DIN EN 61346-2
- acc. to DIN EN 81346-2

F

F

### General Product Approval

### Declaration of Conformity



## Further information

### Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

### Industry Mall (Online ordering system)

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/5SD75813>

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

<http://support.automation.siemens.com/WW/view/en/5SD75813/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mfb=5SD75813](http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=5SD75813)

### CAX-Online-Generator

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

### Tender specifications

<http://ausschreibungstexte.siemens.com/tiplv>

last modified:

11.03.2015