



SURGE ARRESTER TYPE 2 REQUIREMENT  
 CATEGORY C, UC 350V PLUG-IN PROTECTION  
 BLOCKS 2POLE, 1+1 CIRCUIT FOR TN-S AND TT  
 SYSTEMS NARROW DESIGN

Model		
product brand name		SENTRON
Product designation		Surge protection device
<b>Design of the product</b>		Surge arrester
<b>Type of distribution system</b>		TN-S and TT systems
<b>Design of the thread</b>		M5

General technical data		
<b>Response delay</b>	ns	25
<b>Apparent power consumption / in standby mode</b>	mVA	3.5
<b>Continuous operating voltage / with AC / maximum / Note</b>		(L-N)
<b>Insulation material</b>		PBT
<b>Residual voltage / at (8/20) <math>\mu</math>s</b>	kV	1.4
<b>SPD classification / acc. to EN 61643-11 / Test Class II, Type 2</b>		Yes
<b>Protection level</b>		
<ul style="list-style-type: none"> <li>• between PE and N and/or L</li> </ul>	kV	1.5

Voltage		
<b>Fuse protection type / at input for supply voltage</b>		125A40AGL/gG (*with feed-through wiring)
<b>Size of surge arrester</b>		1 1/3 MW (24 mm)
<b>Limit voltage</b>		
<ul style="list-style-type: none"> <li>• at pulse curve shape B3/C1 / at (6 kV/3 kA) / acc. to IEEE C 62.41 and BS 6651</li> </ul>	kV	1
<ul style="list-style-type: none"> <li>• with pulse curve shape C2 / at (10 kV/5 kA) / acc. to IEEE C 62.41 and BS 6651</li> </ul>	kV	1.1

<ul style="list-style-type: none"> <li>with pulse curve shape C3 / at (20 kV/10 kA) / acc. to IEEE C 62.41 and BS 6651</li> </ul>	kV	1.2
<b>Short-circuit rating</b>		for 125gL: 25 kA rms
<b>Residual voltage</b>		
<ul style="list-style-type: none"> <li>at 10 kA / at (8/20) <math>\mu</math>s</li> </ul>	kV	1.2
<ul style="list-style-type: none"> <li>at 3 kA / at (8/20) <math>\mu</math>s</li> </ul>	kV	1
<ul style="list-style-type: none"> <li>at 5 kA / at (8/20) <math>\mu</math>s</li> </ul>	kV	1.1
Overvoltage category / acc. to IEC 61010-1		III

<b>Supply voltage</b>		
<b>Supply voltage frequency</b>		
<ul style="list-style-type: none"> <li>minimum</li> </ul>	Hz	50
<ul style="list-style-type: none"> <li>maximum</li> </ul>	Hz	60
<b>Voltage Protection Rating (VPR) / acc. to UL 1449</b>	V	900

<b>Protection class</b>		
<b>Protection class IP</b>		IP20
<b>Combustibility class acc. to UL 94</b>		V0

<b>Electricity</b>		
<b>Discharge current</b>		
<ul style="list-style-type: none"> <li>1 phase / at (8/20) <math>\mu</math>s / maximum</li> </ul>	kA	20
Protection level / between N and L	kV	1.4
<b>Surge voltage resistance / at 6 kV / at (8/20) <math>\mu</math>s</b>	kV	1.5

<b>Main circuit</b>		
<b>Operating voltage</b>		
<ul style="list-style-type: none"> <li>with AC / Rated value</li> </ul>	V	240

<b>Product details</b>		
Product component / remote-signaling contact		No

<b>Connections</b>		
<b>Connectable conductor cross-section</b>		
<ul style="list-style-type: none"> <li>for rigid conductor <ul style="list-style-type: none"> <li>— minimum</li> <li>— maximum</li> </ul> </li> <li>finely stranded <ul style="list-style-type: none"> <li>— minimum</li> <li>— maximum</li> </ul> </li> </ul>	mm <sup>2</sup>	2.5 25 2.5 16
<b>Connectable AWG conductor cross-section / as coded AWG spec. / for grounding / finely stranded</b>		
<ul style="list-style-type: none"> <li>minimum</li> <li>maximum</li> </ul>	mm <sup>2</sup>	12 4

<b>Mechanical Design</b>		
<b>Height</b>	mm	99

Depth	mm	64
Mounting type		Rail-mountable NS 35

### Environmental conditions

<b>Ambient temperature</b>		
• minimum	°C	-40
• maximum	°C	80

<b>General Product Approval</b>	<b>Declaration of Conformity</b>	<b>other</b>
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KEMA



GOST



UL



EG-Konf.

[Environmental Confirmations](#)

### 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/5SD74220>

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

<http://support.automation.siemens.com/WW/view/en/5SD74220/all>

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

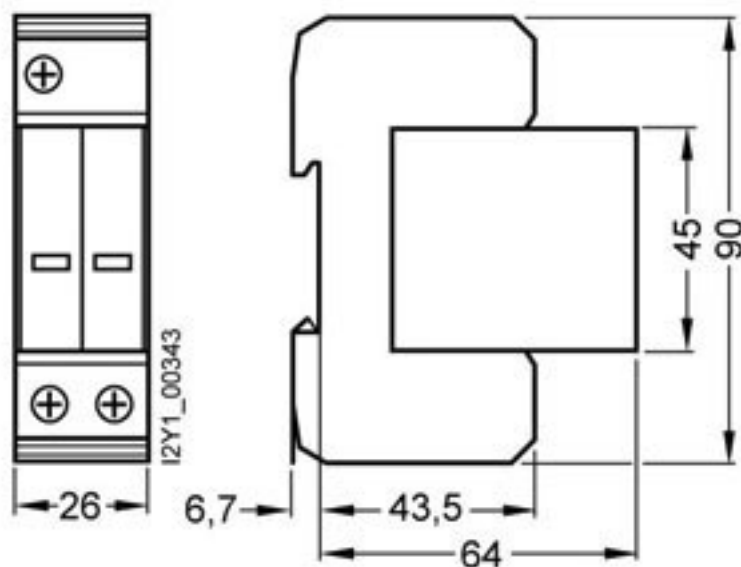
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SD74220](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SD74220)

**CAX-Online-Generator**

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

**Tender specifications**

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



last modified:

11.03.2015