

LIGHTNING ARRESTER TYPE 1 REQUIREMENT  
 CATEGORY B, UC 350V PLUG-IN PROTECTION  
 BLOCKS 4-POLE, 3+1 CIRCUIT FOR TN-S AND TT-  
 SYSTEMS W. REMOTE DISPLAY



Model		
product brand name		SENTRON
Product designation		Surge protection device
<b>Design of the product</b>		Lightning arresters
<b>Type of distribution system</b>		TT and TN-C-S
<b>Design of the switching function</b>		1 CO
<b>Design of the thread</b>		M5
<b>Signal design</b>		Defect signaling contact
General technical data		
<b>Response delay</b>	ns	100
<b>Apparent power consumption / in standby mode</b>	mVA	5
<b>Insulation material</b>		PBT
<b>SPD classification / acc. to EN 61643-11 / Test Class II, Type 2</b>		No
<b>Protection level</b>		
<ul style="list-style-type: none"> <li>• between PE and L / for wanted signal</li> </ul>	kV	2.5
<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>		315A125A* gl/gG (*with feed-through wiring)
<b>Size of surge arrester</b>		8MW
<b>Short-circuit rating</b>		for 315gL: 50 kA rms
<b>Overvoltage category / acc. to IEC 61010-1</b>		III
Supply voltage		
<b>Supply voltage frequency</b>		

- minimum
- maximum

Hz	50
Hz	60

### Protection class

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

### Electricity

<b>Discharge current</b>		
• 1 phase / at (8/20) $\mu$ s / maximum	kA	25
• 3 phase / at (8/20) $\mu$ s / Rated value	kA	100
Protection level / between N and L	kV	1.5
<b>Surge voltage resistance / at 6 kV / at (8/20) <math>\mu</math>s</b>	kV	1.5

### Main circuit

<b>Operating voltage</b>		
• with AC / Rated value	V	240

### Product details

Product component / remote-signaling contact		Yes
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### Connections

<b>Connectable conductor cross-section</b>		
• for rigid conductor		
— minimum	mm <sup>2</sup>	2.5
— maximum	mm <sup>2</sup>	35
• finely stranded		
— minimum	mm <sup>2</sup>	2.5
— maximum	mm <sup>2</sup>	25
<b>Connectable AWG conductor cross-section / as coded AWG spec. / for grounding / finely stranded</b>		
• minimum	mm <sup>2</sup>	13
• maximum	mm <sup>2</sup>	2
<b>Type of electrical connection</b>		M2 screw thread

### Mechanical Design

<b>Mounting type</b>		Rail-mountable NS 35
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### Environmental conditions

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

General Product Approval				Declaration of Conformity	other
					<a href="#">Environmental Confirmations</a>
KEMA	GOST	UL		EG-Konf.	

#### 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/5SD74141>

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

<http://support.automation.siemens.com/WW/view/en/5SD74141/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SD74141](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SD74141)

**CAX-Online-Generator**

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

**Tender specifications**

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

last modified:

11.03.2015