



CIRCUIT BREAKER 400V 10KA, 2-POLE, C, 80A, D=70MM

Figure similar

Model		
product brand name		SENTRON
Product designation		Miniature circuit breakers
<b>Design of the product</b>		5SP Miniature circuit breakers
General technical data		
<b>Number of poles</b>		2
<b>Number of poles / Note</b>		2P
<b>Tripping characteristic class</b>		C
<b>circuit-breaker / Design</b>		5SP4
<b>Mechanical service life (switching cycles) / typical</b>		20 000
<b>Overvoltage category</b>		3
Voltage		
<b>Insulation voltage</b>		
• with AC / Rated value	V	440
Supply voltage		
Supply voltage frequency / Rated value	Hz	50
Protection class		
<b>Protection class IP</b>		IP20, with connected conductors
Switching capacity		
<b>Switching capacity current</b>		
• for DC / acc. to IEC 60947-2 / Rated value	kA	15
• acc. to EN 60898 / Rated value	kA	10
• acc. to IEC 60947-2 / Rated value	kA	10

Dissipation		
<b>Active power loss</b>		
<ul style="list-style-type: none"> <li>for rated value of the current / with AC / in hot operating state / per pole</li> </ul>	W	7
Electricity		
rated current I <sub>n</sub> / IEC, DIN/VDE / at 40 Cel	A	76
Current / with AC / Rated value	A	80
Product details		
Product feature / Touch protection		Yes
<b>Product component</b>		
<ul style="list-style-type: none"> <li>Tunnel terminals top</li> </ul>		Yes
<ul style="list-style-type: none"> <li>Tunnel terminals bottom</li> </ul>		Yes
<b>Product property</b>		
<ul style="list-style-type: none"> <li>Properties for main switches in accordance with EN 60204-1</li> </ul>		Yes
<ul style="list-style-type: none"> <li>halogen-free</li> </ul>		Yes
<ul style="list-style-type: none"> <li>sealable</li> </ul>		Yes
<ul style="list-style-type: none"> <li>silicon-free</li> </ul>		Yes
Product expansion / can be installed / supplementary devices		Yes
Product function		
Product function / neutral conductor switching		No
Short circuit		
<b>Breaking capacity short-circuit current (I<sub>cn</sub>)</b>		
<ul style="list-style-type: none"> <li>with AC / acc. to UL 1077 and CSA C22.2 No.235</li> </ul>	kA	5
<ul style="list-style-type: none"> <li>for DC / acc. to EN 60898-2</li> </ul>	kA	10
Number		
<b>Number of test cycles / for environmental testing / acc. to IEC 60068-2-30</b>		6
Connections		
<b>Connectable conductor cross-section / stranded</b>		
<ul style="list-style-type: none"> <li>minimum</li> </ul>	mm <sup>2</sup>	4
<ul style="list-style-type: none"> <li>maximum</li> </ul>	mm <sup>2</sup>	50
<b>Connectable conductor cross-section</b>		
<ul style="list-style-type: none"> <li>solid</li> </ul>		
<ul style="list-style-type: none"> <li>— minimum</li> </ul>	mm <sup>2</sup>	4
<ul style="list-style-type: none"> <li>— maximum</li> </ul>	mm <sup>2</sup>	50
<ul style="list-style-type: none"> <li>finely stranded / with core end processing</li> </ul>		
<ul style="list-style-type: none"> <li>— minimum</li> </ul>	mm <sup>2</sup>	1.5

— maximum	mm <sup>2</sup>	35
<b>AWG number / as coded connectable conductor cross section</b>		
• minimum		14
• maximum		2
<b>Tightening torque [lbf·in] / with screw-type terminals</b>		
• minimum	lbf·in	22
• maximum	lbf·in	31
<b>Tightening torque / with screw-type terminals</b>		
• minimum	N·m	2.5
• maximum	N·m	3.5
Position / of power supply cord		Any

### Mechanical Design

<b>Height</b>	mm	90
<b>Width</b>	mm	54
<b>Depth</b>	mm	76
<b>mounting position</b>		any
<b>Installation depth</b>	mm	70
<b>Number of width units</b>		3
<b>Mounting type</b>		Standard mounting rail and screw fixing

### Environmental conditions

<b>Influence of the surrounding temperature</b>		max. 95% humidity
Shock resistance / acc. to IEC 60068-2-27		150m/s <sup>2</sup> at 11ms half-sine
Vibration resistance / acc. to IEC 60068-2-6		50m/s <sup>2</sup> at 25 to 150Hz and 60m/s <sup>2</sup> at 35Hz (4sec)
<b>Ambient temperature</b>		
• minimum	°C	-25
• maximum	°C	55
• during storage / minimum	°C	-40
• during storage / maximum	°C	75

### Certificates

Equipment marking / acc. to DIN EN 61346-2		F
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## General Product Approval



Declaration of Conformity	Test Certificates	Shipping Approval	other
 EG-Konf.	<a href="#">Special Test Certificate</a>	 GL	<a href="#">other</a>  LRS

## 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/5SP42807>

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

<http://support.automation.siemens.com/WW/view/en/5SP42807/all>

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

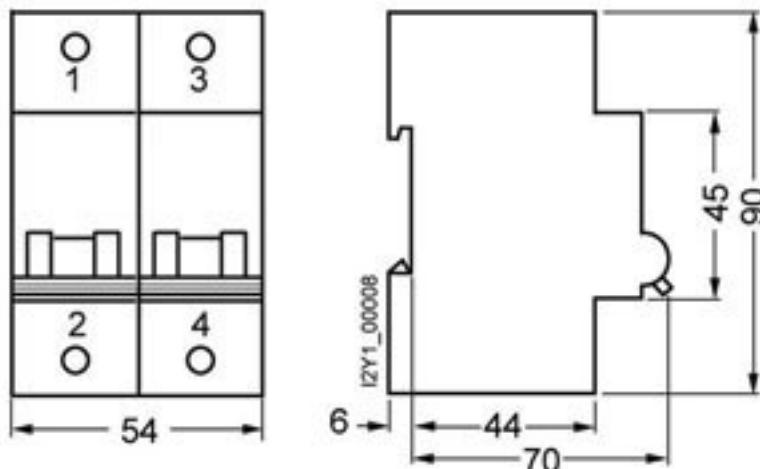
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SP42807](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SP42807)

### CAX-Online-Generator

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

### Tender specifications

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



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