

CIRCUIT BREAKER 400V 10KA, 3-POLE, B, 100A,  
D=70MM



Model		
product brand name		SETRON
Product designation		Miniature circuit breakers
Design of the product		5SP Miniature circuit breakers
General technical data		
Number of poles		3
Number of poles / Note		3P
Tripping characteristic class		B
circuit-breaker / Design		5SP4
Mechanical service life (switching cycles) / typical		20 000
Overvoltage category		3
Voltage		
Type of voltage		AC/DC
Insulation voltage		
• at AC / Rated value	V	440
Supply voltage		
Supply voltage / at AC / Rated value	V	400
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>		
• at 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>		
• for rated value of the current / at AC / in hot operating state / per pole	W	8
Electricity		
rated current I <sub>n</sub> / IEC, DIN/VDE / at 40 Cel	A	95
Current / at AC / Rated value	A	100
Product details		
Product feature / Touch protection		Yes
<b>Product component</b>		
• Tunnel terminals top		Yes
• Tunnel terminals bottom		Yes
<b>Product property</b>		
• Properties for main switches in accordance with EN 60204-1		Yes
• halogen-free		Yes
• sealable		Yes
• silicon-free		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>		
• at AC / acc. to UL 1077 and CSA C22.2 No.235	kA	5
• at DC / acc. to EN 60898-2	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>		
• minimum	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 <ul style="list-style-type: none"> <li>— minimum</li> <li>— maximum</li> </ul> </li> <li>• finely stranded / with core end processing <ul style="list-style-type: none"> <li>— minimum</li> <li>— maximum</li> </ul> </li> </ul>	mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup>	4 50 1.5 35
<b>AWG number / as coded connectable conductor cross section</b>		
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>		14 2
<b>Tightening torque [lbf·in] / with screw-type terminals</b>		
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	lbf·in lbf·in	22 31
<b>Tightening torque / with screw-type terminals</b>		
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	N·m N·m	2.5 3.5
Position / of power supply cord		Any

### Mechanical Design

<b>Height</b>	mm	90
<b>Width</b>	mm	81
<b>Depth</b>	mm	76
<b>mounting position</b>		any
<b>Installation depth</b>	mm	70
<b>Number of width units</b>		4.5
<b>Mounting type</b>		Standard mounting rail and screw fixing
<b>Net weight</b>	g	789

### 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>		
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> <li>• during storage / minimum</li> <li>• during storage / maximum</li> </ul>	°C °C °C °C	-25 55 -40 75

### Certificates

<b>Equipment marking</b>		
<ul style="list-style-type: none"> <li>• acc. to DIN EN 61346-2</li> <li>• acc. to DIN EN 81346-2</li> </ul>		F F

**General Product Approval****Declaration of  
Conformity****Test  
Certificates****Shipping Approval**

[spezielle  
Prüfbescheinigung  
n](#)



GL



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/5SP43916>

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

<http://support.automation.siemens.com/WW/view/en/5SP43916/all>

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

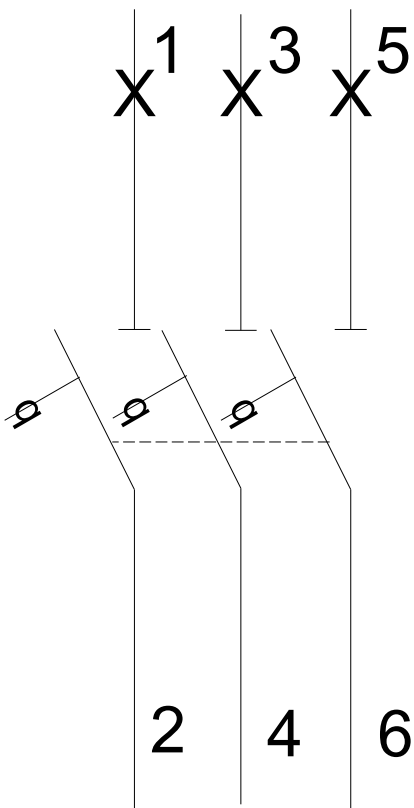
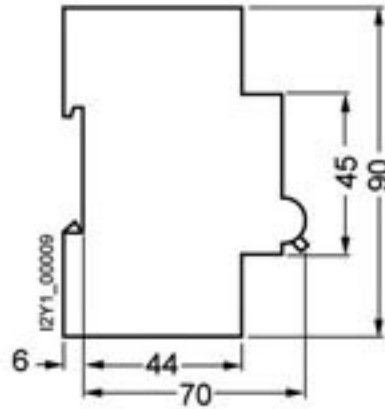
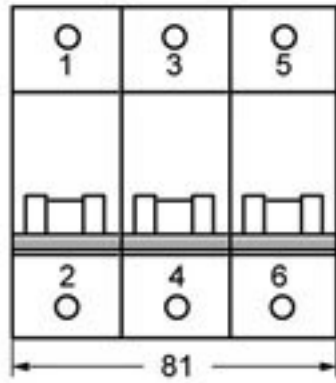
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mfb=5SP43916](http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=5SP43916)

**CAX-Online-Generator**

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

**Tender specifications**

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



last modified:

13.08.2015