



Miniature circuit breaker 240 V 14kA, 1-pole, B, 6 A, D=70 mm according to UL 489, equal polarity

Model	
product brand name	SENTRON
product designation	Miniature circuit breakers
design of the product	Miniature circuit-breaker 5SJ4
General technical data	
number of poles	1
design of pole	1P
tripping characteristic class	B
mechanical service life (operating cycles) typical	10 000
installation environment regarding EMC	Suitable for environment B (immunity to interference not applicable)
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750	F
overvoltage category	3
degree of pollution	3
Voltage	
type of voltage of the operating voltage	AC/DC
insulation voltage (U <sub>i</sub> ) at AC rated value	440 V
Supply voltage	
supply voltage at AC rated value	400 V
operating voltage	
<ul style="list-style-type: none"> <li>at AC according to UL 489 and CSA C22.2 No. 5-02 maximum</li> </ul>	120 V
<ul style="list-style-type: none"> <li>at DC rated value maximum</li> </ul>	60 V
<ul style="list-style-type: none"> <li>at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum</li> </ul>	60 V
supply voltage frequency rated value	50 Hz
Protection class	
protection class IP	IP20, with connected conductors, IP 40 in the handle range
Switching capacity	
switching capacity current	
<ul style="list-style-type: none"> <li>according to EN 60898 rated value</li> </ul>	10 kA
<ul style="list-style-type: none"> <li>according to IEC 60947-2 rated value</li> </ul>	15 kA
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	3 W
Current	
operational current	
<ul style="list-style-type: none"> <li>at 30 °C rated value</li> </ul>	6 A
<ul style="list-style-type: none"> <li>at 40 °C rated value</li> </ul>	6 A
<ul style="list-style-type: none"> <li>at 45 °C rated value</li> </ul>	5.8 A
<ul style="list-style-type: none"> <li>at 50 °C rated value</li> </ul>	5.7 A

- at 55 °C rated value
- at 60 °C rated value
- at AC rated value

5.6 A  
5.4 A  
6 A

#### Main circuit

type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02 240/120  
suitability for operation Mechanical engineering / industry

#### Product details

product component  

- tunnel terminals top No
- tunnel terminals bottom No
- combined terminal top Yes
- combined terminal bottom Yes
- neutral conductor switching No

product feature  

- halogen-free Yes
- sealable Yes
- silicon-free Yes

product extension installable supplementary devices Yes

#### Product function

product function note Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in

#### Short circuit

short-circuit current breaking capacity (I<sub>cn</sub>) at AC according to UL 1077 and CSA C22.2 No.235 14 kA

#### Connections

connectable conductor cross-section finely stranded with core end processing  

- minimum 0.75 mm<sup>2</sup>
- maximum 25 mm<sup>2</sup>

tightening torque with screw-type terminals maximum 3.5 N·m  
position of power supply cord Any

#### Mechanical Design

height 90 mm  
width 18 mm  
depth 70 mm  
installation depth 70 mm  
number of modular width units 1  
fastening method on standard mounting rail  
mounting position any  
net weight 162 g

#### Environmental conditions

vibration resistance 50 m/s<sup>2</sup> at 25 to 150Hz and 60m/s<sup>2</sup> at 35Hz (4sec)  
vibration resistance according to IEC 60068-2-6 ±1 mm at 5 to 25 Hz; 50 m/s<sup>2</sup> at 25 to 150 Hz  
ambient temperature during operation  

- minimum 55 °C
- maximum -25 °C

ambient temperature during operation max. 95% humidity  
ambient temperature during storage  

- minimum -40 °C
- maximum 75 °C

#### General Product Approval

Declaration of Conformity



[Confirmation](#)



Declaration of Conformity

Test Certificates

other

**Further information**

**Information on the packaging**

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

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

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

**Industry Mall (Online ordering system)**

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SJ4106-6HG40>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SJ4106-6HG40>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SJ4106-6HG40](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4106-6HG40)

**CAX-Online-Generator**

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

**Tender specifications**

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



