



Circuit breaker 10kA, 1-pole, C, 0.5 A according to UL 489-277V

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
tripping characteristic class	C
mechanical service life (switching 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>	277 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
<ul style="list-style-type: none"> <li>at DC / 2-channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum</li> </ul>	125 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	1.2 W
Current	
operational current	
<ul style="list-style-type: none"> <li>at 30 °C / rated value</li> </ul>	0.5 A
<ul style="list-style-type: none"> <li>at 40 °C / rated value</li> </ul>	0.5 A

<ul style="list-style-type: none"> <li>• at 45 °C / rated value</li> <li>• at 50 °C / rated value</li> <li>• at 55 °C / rated value</li> <li>• at 60 °C / rated value</li> <li>• at AC / rated value</li> </ul>	0.48 A 0.46 A 0.44 A 0.42 A 0.5 A
<b>Main circuit</b>	
type of voltage supply / at AC / according to UL 489 and CSA C22.2 No. 5-02	480/277
suitability for operation	Mechanical engineering / industry
<b>Product details</b>	
product component / neutral conductor switching	No
product feature / touch protection	Yes
product component <ul style="list-style-type: none"> <li>• tunnel terminals top</li> <li>• tunnel terminals bottom</li> <li>• combined terminal top</li> <li>• combined terminal bottom</li> </ul>	No No Yes Yes
product feature <ul style="list-style-type: none"> <li>• halogen-free</li> <li>• sealable</li> <li>• silicon-free</li> </ul>	Yes Yes Yes
product extension / installable / supplementary devices	Yes
<b>Product function</b>	
product function / note	Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in
<b>Short circuit</b>	
breaking capacity short-circuit current (I <sub>cn</sub> ) / at AC / according to UL 1077 and CSA C22.2 No.235	10 kA
<b>Connections</b>	
connectable conductor cross-section / finely stranded / with core end processing <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	0.75 mm <sup>2</sup> 25 mm <sup>2</sup>
tightening torque / with screw-type terminals / maximum	3.5 N·m
position / of power supply cord	Any
<b>Mechanical Design</b>	
height	121 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	180 g
<b>Environmental conditions</b>	
vibration resistance	50 m/s <sup>2</sup> at 25 to 150Hz and 60m/s <sup>2</sup> at 35Hz (4sec)
ambient temperature / during operation <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	55 °C -25 °C
ambient temperature / during storage <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	-40 °C 75 °C
<b>Certificates</b>	
reference code <ul style="list-style-type: none"> <li>• according to EN 61346-2</li> <li>• according to IEC 81346-2</li> </ul>	F F
<b>General Product Approval</b>	<b>Declaration of Conformity</b>



[Confirmation](#)



Declaration of Conformity	Test Certificates	other
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[Special Test Certificate](#)

[Miscellaneous](#)

### Further information

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=5SJ4105-7HG42>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SJ4105-7HG42>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SJ4105-7HG42](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4105-7HG42)

CAX-Online-Generator

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

Tender specifications

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



