



Circuit breaker 10kA, 1-pole, C, 1A 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 / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750	F
overvoltage category	3
degree of pollution	3
Voltage	
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 / acc. 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 / acc. 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 / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum</li> </ul>	125 V
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>• acc. to EN 60898 / rated value</li> </ul>	10 kA
<ul style="list-style-type: none"> <li>• acc. 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	1.7 W
Current	
operational current	
<ul style="list-style-type: none"> <li>• at 30 °C / rated value</li> </ul>	1 A
<ul style="list-style-type: none"> <li>• at 40 °C / rated value</li> </ul>	1 A
<ul style="list-style-type: none"> <li>• at 45 °C / rated value</li> </ul>	0.96 A
<ul style="list-style-type: none"> <li>• at 50 °C / rated value</li> </ul>	0.9 A

<ul style="list-style-type: none"> <li>• at 55 °C / rated value</li> <li>• at 60 °C / rated value</li> <li>• at AC / rated value</li> </ul>	0.9 A	
	0.84 A	
	1 A	
<b>Main circuit</b>		
type of voltage supply / at AC / acc. 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 / acc. 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	177 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>• acc. to DIN EN 61346-2</li> <li>• acc. to IEC 81346-2</li> </ul>	F F	
<b>General Product Approval</b>	<b>Declaration of Conformity</b>	<b>Test Certificates</b>



[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?mfib=5SJ4101-7HG42>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SJ4101-7HG42>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mfib=5SJ4101-7HG42](http://www.automation.siemens.com/bilddb/cax_en.aspx?mfib=5SJ4101-7HG42)

CAX-Online-Generator

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

Tender specifications

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



