

Miniature circuit breaker 240 V 14kA, 1-pole, B, 45 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
Number of poles / Note	1P
Tripping characteristic class	B
Installation environment regarding EMC	Suitable for environment B (immunity to interference not applicable)
circuit-breaker / Design	5SJ4
Mechanical service life (switching cycles) / typical	20 000
Reference code / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750	F
Overvoltage category	3
Voltage	
Insulation voltage / at AC / rated value	440 V
Supply voltage	

Type of voltage	AC/DC
Current / at AC / rated value	45 A
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>	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 / 1-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum</li> </ul>	60 V
Supply voltage frequency	
<ul style="list-style-type: none"> <li>• rated value</li> </ul>	50 Hz

<b>Protection class</b>	
Protection class IP	IP20, with connected conductors, IP 40 in the handle range

<b>Switching capacity</b>	
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

<b>Dissipation</b>	
Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	5.7 W

<b>Current</b>	
Tripping residual / rated value / derated current / at 40 Cel	45 A

<b>Main circuit</b>	
Type of voltage supply / at AC / acc. to UL 489 and CSA C22.2 No. 5-02	240/120
Suitability for operation	Mechanical engineering / industry

<b>Product details</b>	
Product function / neutral conductor switching	No
Product feature / Touch protection	Yes
Product component	
<ul style="list-style-type: none"> <li>• Tunnel terminals top</li> </ul>	No
<ul style="list-style-type: none"> <li>• Tunnel terminals bottom</li> </ul>	No
<ul style="list-style-type: none"> <li>• combined terminal top</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• combined terminal bottom</li> </ul>	Yes
Product feature	
<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 extension / can be installed / supplementary devices	Yes

## Product function

Product function / Note	Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in
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## Short circuit

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

Connectable conductor cross-section / finely stranded / with core end processing	1.5 ... 25 mm <sup>2</sup>
Position / of power supply cord	Any

## Mechanical Design

Height	90 mm
Width	18 mm
Depth	70 mm
Installation depth	70 mm
Number of width units	1
Mounting type	on standard mounting rail
Mounting position	any
Net weight	167 g

## Environmental conditions

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

## Certificates

Reference code	
• acc. to DIN EN 61346-2	F
• acc. to DIN EN 81346-2	F

<b>General Product Approval</b>	<b>Declaration of Conformity</b>	<b>Test Certificates</b>
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CCC



UL



VDE



EG-Konf.

[Miscellaneous](#)

[Special Test Certificate](#)

## 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=5SJ4145-6HG40>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SJ4145-6HG40>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SJ4145-6HG40](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4145-6HG40)

CAx-Online-Generator

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

Tender specifications

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



