



Miniature circuit breaker 240 V 10kA, 1-pole, C, 63 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	C
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
value range of the supply voltage frequency	50/60 Hz
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	7.1 W
Current	
operational current	
<ul style="list-style-type: none"> <li>at 30 °C rated value</li> </ul>	63 A
<ul style="list-style-type: none"> <li>at 40 °C rated value</li> </ul>	63 A
<ul style="list-style-type: none"> <li>at 45 °C rated value</li> </ul>	61.1 A

<ul style="list-style-type: none"> <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>	59.9 A 58.3 A 56.7 A 63 A
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### 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	
<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> <li>• neutral conductor switching</li> </ul>	No No Yes Yes No
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

### Product function

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

short-circuit current breaking capacity (I <sub>cn</sub> ) at AC according to UL 1077 and CSA C22.2 No.235	10 kA
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### Connections

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

### 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	176 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	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	55 °C -25 °C
ambient temperature during operation	max. 95% humidity
ambient temperature during storage	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	-40 °C 75 °C

### General Product Approval

### Declaration of Conformity

[Confirmation](#)



### 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=5SJ4163-7HG40>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SJ4163-7HG40>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SJ4163-7HG40](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4163-7HG40)

**CAX-Online-Generator**

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

**Tender specifications**

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



