



Miniature circuit breaker 240 V 14kA, 1-pole, C, 1A, 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 _i) at AC rated value	440 V
Supply voltage	
supply voltage at AC rated value	400 V
operating voltage	
• at AC according to UL 489 and CSA C22.2 No. 5-02 maximum	120 V
• at DC rated value maximum	60 V
• at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum	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	
• according to EN 60898 rated value	10 kA
• according to IEC 60947-2 rated value	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	
• at 30 °C rated value	1 A
• at 40 °C rated value	1 A
• at 45 °C rated value	0.96 A
• at 50 °C rated value	0.9 A

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

0.9 A
0.84 A
1 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_{cn}) 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 mm²
- maximum 25 mm²

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 164 g

Environmental conditions

vibration resistance 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)
vibration resistance according to IEC 60068-2-6 ±1 mm at 5 to 25 Hz; 50 m/s² 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



EG-Konf.

[Miscellaneous](#)

[Special Test Certificate](#)

[Miscellaneous](#)

[Environmental Confirmations](#)

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?mfb=5SJ4101-7HG40>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SJ4101-7HG40>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=5SJ4101-7HG40

CAX-Online-Generator

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

Tender specifications

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



