

Miniature circuit breaker 240 V 10kA, 1-pole, C, 50 A, D=70 mm according to UL 489



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	C
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
Degree of pollution	3
Voltage	
Insulation voltage / at AC / rated value	440 V

Supply voltage	
Type of voltage	AC/DC
Operating current / at AC / rated value	50 A
Supply voltage / at AC / rated value	400 V
Operating voltage	
at AC / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum	240 V
at DC / rated value / maximum	60 V
at DC / 1-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum	60 V
at DC / 2-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum	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	
acc. to EN 60898 / rated value	10 kA
acc. 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	5 W
Current	
Tripping residual / rated value / derated current / at 40 Cel	50 A
Main circuit	
Type of voltage supply / at AC / acc. to UL 489 and CSA C22.2 No. 5-02	240
Suitability for operation	Mechanical engineering / industry
Product details	
Product function / neutral conductor switching	No
Product feature / Touch protection	Yes
Product component	
Tunnel terminals top	No
Tunnel terminals bottom	No
combined terminal top	Yes
combined terminal bottom	Yes
Product feature	
halogen-free	Yes
sealable	Yes

• silicon-free	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 _{cn}) / at AC / acc. 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	
• minimum	1.5 mm ²
• maximum	25 mm ²
Position / of power supply cord	Any

Mechanical Design

Height	110 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	178 g

Environmental conditions

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

Certificates

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

General Product Approval			Declaration of Conformity	Test Certificates	
				Miscellaneous	Special Test Certificate
CCC	UL	VDE	EG-Konf.		

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=5SJ4150-7HG41>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SJ4150-7HG41>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4150-7HG41

CAX-Online-Generator

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

Tender specifications

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



