



Miniature circuit breaker 240 V 10kA, 1-pole, D, 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
tripping characteristic class	D
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	
type of voltage / of the operating voltage	AC/DC
insulation voltage (Ui) / at AC / rated value	440 V
Supply voltage	
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 / single 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
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	6.3 W
Current	
operational current	
• at 30 °C / rated value	50 A

• at 40 °C / rated value • at 45 °C / rated value • at 50 °C / rated value • at 55 °C / rated value • at 60 °C / rated value • at AC / rated value	50 A 49 A 47.6 A 46.3 A 45 A 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 component / neutral conductor switching	No		
product feature / touch protection	Yes		
product component • tunnel terminals top • tunnel terminals bottom • combined terminal top • combined terminal bottom	No No Yes Yes		
product feature • halogen-free • sealable • silicon-free	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		
Short circuit			
breaking capacity short-circuit current (Icn) / at AC / acc. to UL 1077 and CSA C22.2 No.235	10 kA		
Connections			
connectable conductor cross-section / finely stranded / with core end processing • minimum • maximum	0.75 mm² 25 mm²		
tightening torque / with screw-type terminals / maximum	3.5 N·m		
position / of power supply cord	Any		
Mechanical Design			
height	110 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		
Environmental conditions			
vibration resistance	50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)		
ambient temperature / during operation • minimum • maximum	55 °C -25 °C		
ambient temperature / during storage • minimum • maximum	-40 °C 75 °C		
Certificates			
reference code • acc. to DIN EN 61346-2 • acc. to IEC 81346-2	F F		
General Product Approval		Declaration of Conformity	Test Certificates



[Miscellaneous](#)

Test Certificates

other

[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?mlfb=5SJ4150-8HG41>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SJ4150-8HG41>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4150-8HG41

CAX-Online-Generator

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

Tender specifications

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

