SIEMENS

Data sheet

5SJ4102-7HG42

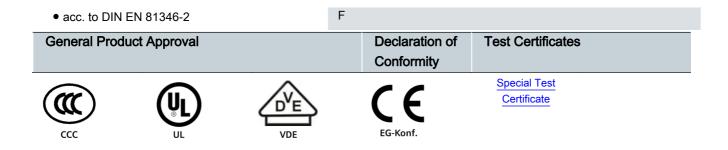
Circuit breaker 10kA, 1-pole, C, 2A according to UL 489-277V



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	С
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	
Type of voltage	AC/DC
Insulation voltage / at AC / rated value	440 V

Supply voltage	
Supply voltage / at AC / rated value	400 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	1.0 W
Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	1.8 W
Electricity	
Tripping residual / rated value / derated current / at	2 A
40 Cel	
Current / at AC / rated value	2 A
Main circuit	
Type of voltage supply / at AC / acc. to UL 489 and	480/277
CSA C22.2 No. 5-02	
Operating voltage	
• minimum	24 V
 at AC / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum 	277 V
	60 V
 at DC / 1-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum 	00 V
at DC / 2-channel / acc. to UL 489 and CSA	125 V
C22.2 No. 5-02 / maximum	
 at DC / rated value / maximum 	60 V
Suitability for operation	Mechanical engineering / industry
Product details	
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	Yes	
devices		
Product function		
Product function		
Note	Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in	
 neutral conductor switching 	No	
Short circuit		
Breaking capacity short-circuit current (Icn) / at AC /	10 kA	
acc. to UL 1077 and CSA C22.2 No.235		
Number		
Number of test cycles / for environmental testing /	6	
acc. to IEC 60068-2-30		
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	121 mm	
Width	18 mm	
Depth	76 mm	
Mounting position	any	
Installation depth	70 mm	
Number of width units	1	
Mounting type	on standard mounting rail	
Net weight	179 g	
Environmental conditions		
Degree of pollution	3	
Influence of the surrounding temperature	max. 95% humidity	
Vibration resistance	50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)	
Vibration resistance / acc. to IEC 60068-2-6	50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)	
Ambient temperature		
• minimum	-25 °C	
• maximum	55 °C	
during storage / minimum	-40 °C	
 during storage / maximum 	75 °C	
Certificates		
Reference code		
• acc. to DIN EN 61346-2	F	
- acc. to bin LN 01040-2		



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=5SJ4102-7HG42

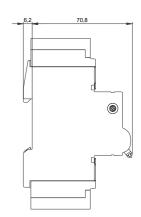
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/5SJ4102-7HG42

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4102-7HG42

CAx-Online-Generator http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications



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