SIEMENS

Data sheet

5SJ4105-7HG42



Circuit breaker 10kA, 1-pole, C, 0.5 A 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					
tripping characteristic class	C					
mechanical service life (switching 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 (Ui) / 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 	277 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					
 at DC / 2-channel / according 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						
 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	1.2 W					
Current						
operational current						
• at 30 °C / rated value	0.5 A					
• at 40 °C / rated value	0.5 A					

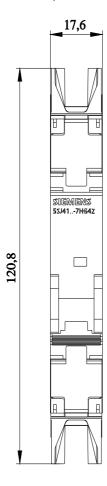
	0.40.4	
 at 45 °C / rated value 	0.48 A	
 at 50 °C / rated value 	0.46 A	
• at 55 °C / rated value	0.44 A	
 at 60 °C / rated value 	0.42 A	
at AC / rated value	0.5 A	
Main circuit		
type of voltage supply / at AC / according to UL 489 and CSA C22.2 No. 5-02	480/277	
suitability for operation	Mechanical engineering / industry	
Product details		
product component / 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 / 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 /	10 kA	
according to UL 1077 and CSA C22.2 No.235		
Connections		
connectable conductor cross-section / finely stranded / with core end processing		
• minimum	0.75 mm²	
• maximum	25 mm ²	
tightening torque / with screw-type terminals / maximum	3.5 N·m	
position / of power supply cord	Any	
Mechanical Design		
height	121 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	180 g	
Environmental conditions		
vibration resistance	50 m/s ² at 25 to 150Hz and 60m/s ² at 35Hz (4sec)	
ambient temperature / during operation		
minimum	55 °C	
• maximum	-25 °C	
ambient temperature / during storage		
minimum	-40 °C	
• maximum	75 °C	
Certificates		
reference code		
according to EN 61346-2	F	
according to IEC 81346-2	F	
		Declaration of
General Product Approval		Conformity

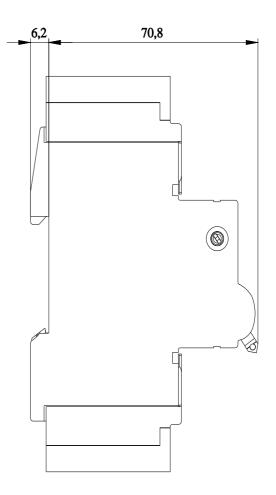
	<u>Confirmation</u>		UDE VDE	EHC	UK CA
Declaration of Conformity	Test Certificates	other			
C E EG-Konf	Special Test Certific- ate	<u>Miscellaneous</u>			

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=5SJ4105-7HG42 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/5SJ4105-7HG42 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4105-7HG42 CAx-Online-Generator http://www.siemens.com/cax Tender specifications

http://www.siemens.com/specifications





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