SIEMENS

Data sheet

5SJ4120-7HG42



Circuit breaker 10kA, 1-pole, C, 20A 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	
mechanical service life (switching cycles) / typical	20 000	
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		
insulation voltage / at AC / rated value	440 V	
Supply voltage		
type of voltage	AC/DC	
operational current / at AC / rated value	20 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 	277 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	
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	2.2 W	

hot operating state / per pole		
Main circuit		
type of voltage supply / at AC / acc. to UL 489 and CSA C22.2 No. 5-02	480/277	
suitability for operation	Mechanical engineering / industry	
Product details		
product function / neutral conductor switching	No	
	Yes	
product feature / touch protection	- 165	
product component	No	
tunnel terminals top	No	
tunnel terminals bottom	Yes	
combined terminal top		
combined terminal bottom	Yes	
product feature	Vee	
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 / acc. to UL 1077 and CSA C22.2 No.235	10 kA	
Connections		
connectable conductor cross-section / finely stranded / with core end processing		
• minimum	1.5 mm ²	
• maximum	25 mm²	
position / of power supply cord	Any	
Mechanical Design		
height	121 mm	
width	- 18 mm	
depth	76 mm	
installation depth	70 mm	
number of modular width units	1	
fastening method	on standard mounting rail	
mounting position	any	
net weight	176 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	05 10	
• minimum	-25 °C	
• maximum	55 °C	
ambient temperature / during storage	10.10	
• minimum	-40 °C	
• maximum	75 °C	
Certificates		
reference code		
• acc. to DIN EN 61346-2	F	
• acc. to IEC 81346-2	F	
General Product Approval		Declaration of Conformity











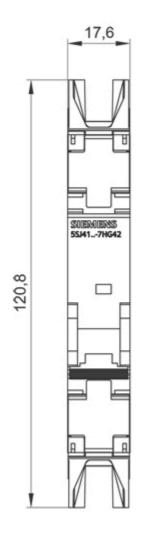


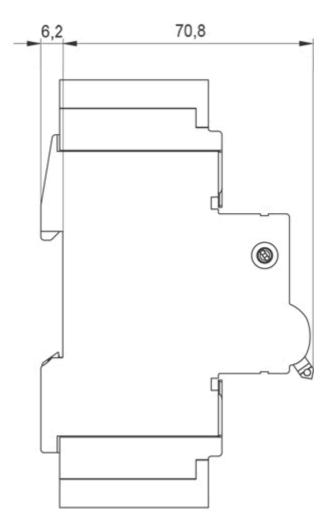
Test Certificates

Special Test Certificate

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=5SJ4120-7HG42 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/5SJ4120-7HG42 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4120-7HG42 Tender specifications http://www.siemens.com/specifications





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