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		
tripping characteristic class	С		
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 / 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 	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		
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	2.4 W		
Current			
operational current			
at 30 °C / rated value	20 A		

• at 40 °C / rated value	20 A			
 at 45 °C / rated value 	19.4 A			
at 50 °C / rated value	18.8 A			
 at 55 °C / rated value 	18.1 A			
 at 60 °C / rated value 	17.6 A			
at AC / rated value	20 A			
Main circuit				
type of voltage supply / at AC / acc. to UL 489 and CSA	480/277			
C22.2 No. 5-02				
suitability for operation	Mechanical engineering / ind	dustry		
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 / installable / supplementary devices	Yes			
Product function				
product function / note	Terminal tightening torque for	or Cu_60/75°C: 3.5Nm/	31lh in	
Short circuit	Torrimar agricorning torque is	5, 64, 66, 76 6, 6,6,6,11	5 H5.III	
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	0.75 mm ²			
maximum	25 mm ²			
tightening torque / with screw-type terminals / maximum	3.5 N·m			
position / of power supply cord				
	Any			
Mechanical Design				
height	404			
	121 mm			
width	18 mm			
depth	18 mm 70 mm			
depth installation depth	18 mm 70 mm 70 mm			
depth installation depth number of modular width units	18 mm 70 mm 70 mm 1			
depth installation depth number of modular width units fastening method	18 mm 70 mm 70 mm			
depth installation depth number of modular width units fastening method mounting position	18 mm 70 mm 70 mm 1			
depth installation depth number of modular width units fastening method mounting position net weight	18 mm 70 mm 70 mm 1 on standard mounting rail			
depth installation depth number of modular width units fastening method mounting position	18 mm 70 mm 70 mm 1 on standard mounting rail any			
depth installation depth number of modular width units fastening method mounting position net weight	18 mm 70 mm 70 mm 1 on standard mounting rail any	60m/s² at 35Hz (4sec)		
depth installation depth number of modular width units fastening method mounting position net weight Environmental conditions	18 mm 70 mm 70 mm 1 on standard mounting rail any 176 g	60m/s² at 35Hz (4sec)		
depth installation depth number of modular width units fastening method mounting position net weight Environmental conditions vibration resistance	18 mm 70 mm 70 mm 1 on standard mounting rail any 176 g	60m/s² at 35Hz (4sec)		
depth installation depth number of modular width units fastening method mounting position net weight Environmental conditions vibration resistance ambient temperature / during operation	18 mm 70 mm 70 mm 1 on standard mounting rail any 176 g 50 m/s² at 25 to 150Hz and	60m/s² at 35Hz (4sec)		
depth installation depth number of modular width units fastening method mounting position net weight Environmental conditions vibration resistance ambient temperature / during operation • minimum	18 mm 70 mm 70 mm 1 on standard mounting rail any 176 g 50 m/s² at 25 to 150Hz and 55 °C	60m/s² at 35Hz (4sec)		
depth installation depth number of modular width units fastening method mounting position net weight Environmental conditions vibration resistance ambient temperature / during operation • minimum • maximum	18 mm 70 mm 70 mm 1 on standard mounting rail any 176 g 50 m/s² at 25 to 150Hz and 55 °C	60m/s² at 35Hz (4sec)		
depth installation depth number of modular width units fastening method mounting position net weight Environmental conditions vibration resistance ambient temperature / during operation • minimum • maximum ambient temperature / during storage	18 mm 70 mm 70 mm 1 on standard mounting rail any 176 g 50 m/s² at 25 to 150Hz and 55 °C -25 °C	60m/s² at 35Hz (4sec)		
depth installation depth number of modular width units fastening method mounting position net weight Environmental conditions vibration resistance ambient temperature / during operation	18 mm 70 mm 70 mm 1 on standard mounting rail any 176 g 50 m/s² at 25 to 150Hz and 55 °C -25 °C -40 °C	60m/s² at 35Hz (4sec)		
depth installation depth number of modular width units fastening method mounting position net weight Environmental conditions vibration resistance ambient temperature / during operation • minimum • maximum ambient temperature / during storage • minimum • maximum Certificates	18 mm 70 mm 70 mm 1 on standard mounting rail any 176 g 50 m/s² at 25 to 150Hz and 55 °C -25 °C -40 °C	60m/s² at 35Hz (4sec)		
depth installation depth number of modular width units fastening method mounting position net weight Environmental conditions vibration resistance ambient temperature / during operation • minimum • maximum ambient temperature / during storage • minimum • maximum Certificates reference code	18 mm 70 mm 70 mm 1 on standard mounting rail any 176 g 50 m/s² at 25 to 150Hz and 55 °C -25 °C -40 °C 75 °C	60m/s² at 35Hz (4sec)		
depth installation depth number of modular width units fastening method mounting position net weight Environmental conditions vibration resistance ambient temperature / during operation • minimum • maximum ambient temperature / during storage • minimum • maximum Certificates reference code • acc. to DIN EN 61346-2	18 mm 70 mm 70 mm 1 on standard mounting rail any 176 g 50 m/s² at 25 to 150Hz and 55 °C -25 °C -40 °C 75 °C	60m/s² at 35Hz (4sec)		
depth installation depth number of modular width units fastening method mounting position net weight Environmental conditions vibration resistance ambient temperature / during operation • minimum • maximum ambient temperature / during storage • minimum • maximum Certificates reference code	18 mm 70 mm 70 mm 1 on standard mounting rail any 176 g 50 m/s² at 25 to 150Hz and 55 °C -25 °C -40 °C 75 °C			
depth installation depth number of modular width units fastening method mounting position net weight Environmental conditions vibration resistance ambient temperature / during operation • minimum • maximum ambient temperature / during storage • minimum • maximum Certificates reference code • acc. to DIN EN 61346-2	18 mm 70 mm 70 mm 1 on standard mounting rail any 176 g 50 m/s² at 25 to 150Hz and 55 °C -25 °C -40 °C 75 °C	60m/s² at 35Hz (4sec) Declaration of Conformity	Test Certificates	











Special Test Certificate

other

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=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, ...)

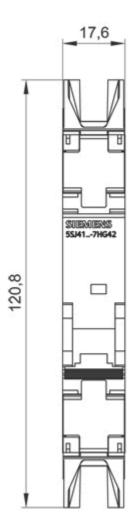
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4120-7HG42

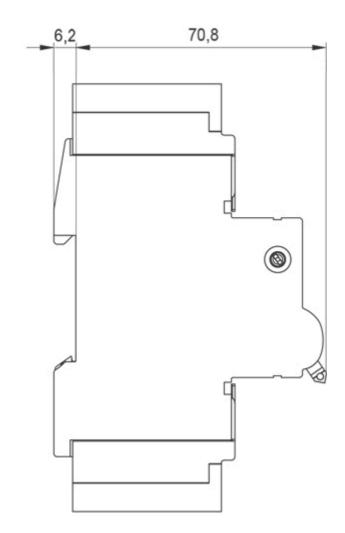
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications





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