SIEMENS

Data sheet

5SJ4120-6HG40



Miniature circuit breaker 240 V 14kA, 1-pole, B, 20 A, D=70 mm according to UL 489, equal polarity

Model					
product brand name	SENTRON				
product designation	Miniature circuit breakers				
design of the product	Miniature circuit-breaker 5SJ4				
General technical data	General technical data				
number of poles	1				
design of pole	1P				
tripping characteristic class	В				
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				
value range of the supply voltage frequency	50/60 Hz				
operating voltage					
 at AC according to UL 489 and CSA C22.2 No. 5-02 maximum 	120 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				
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	2.7 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 according to UL 489 and CSA C22.2 No. 5-02	240/120
suitability for operation	Mechanical engineering / industry
Product details	
product component	
 tunnel terminals top 	No
tunnel terminals bottom	No
 combined terminal top 	Yes
 combined terminal bottom 	Yes
 neutral conductor switching 	No
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 according to UL 1077 and CSA C22.2 No.235	14 kA
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	,,
	90 mm
height width	18 mm
depth	70 mm
installation depth	70 mm
number of modular width units	1
fastening method	on standard mounting rail
mounting position	•
net weight	any 163 g
-	105 g
Environmental conditions vibration resistance	50 m/s^2 at 25 to 150Hz and 60 m/s^2 at 25Hz (Acco)
	50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) ±1 mm at 5 to 25 Hz; 50 m/s² at 25 to 150 Hz
vibration resistance according to IEC 60068-2-6	1 min at 5 to 25 m2, 50 m/s ⁻ at 25 to 150 m2
ambient temperature during operation	55 °C
 minimum maximum 	55 °C -25 °C
ambient temperature during operation	max. 95% humidity
ambient temperature during storage	-40 °C
 minimum maximum 	-40 °C 75 °C
Certificates	
reference code	r
according to EN 61346-2	F
according to IEC 81346-2	F Declarities of Ourformity
General Product Approval	Declaration of Conformity

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Test Certificates		other	
Miscellaneous	Special Test Certific- ate	Environmental Con- firmations	<u>Miscellaneous</u>

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SJ4120-6HG40}$

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

https://support.industry.siemens.com/cs/ww/en/ps/5SJ4120-6HG40

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

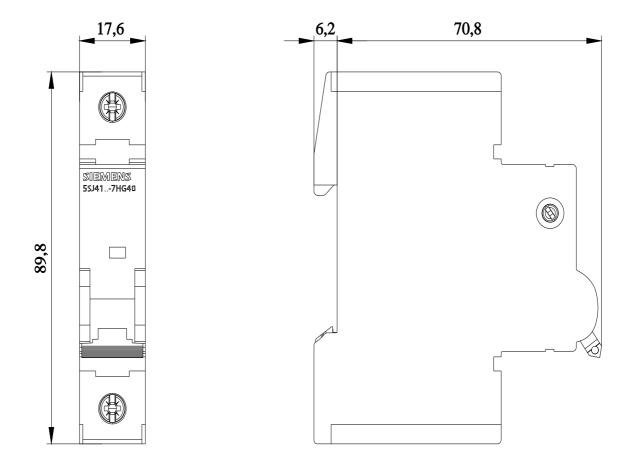
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4120-6HG40

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications



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