SIEMENS

Data sheet 5SJ4120-8HG42



Circuit breaker 10kA, 1-pole, D, 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	D	
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	3	
	No	
product function / neutral conductor switching		
product feature / touch protection	Yes	
product component	N	
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 / acc. to UL 1077 and CSA C22.2 No.235	10 kA	
Connections		
connectable conductor cross-section / finely stranded /		
with core end processing	4.52	
• minimum	1.5 mm²	
• 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	174 g	
Environmental conditions		
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	(1000)	
• minimum	-25 °C	
maximum	55 °C	
ambient temperature / during storage		
minimum	-40 °C	
• maximum	75 °C	
Certificates		
reference code		
acc. to DIN EN 61346-2	F	
• acc. to IEC 81346-2	F	
	·	Declaration of
General Product Approval		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=5SJ4120-8HG42

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

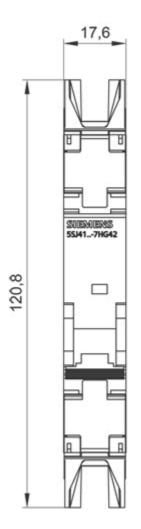
https://support.industry.siemens.com/cs/ww/en/ps/5SJ4120-8HG42

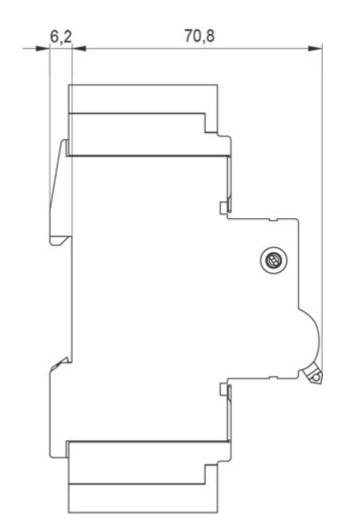
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4120-8HG42

Tender specifications

http://www.siemens.com/specifications





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