



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	C
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 (U _i) / at AC / rated value	440 V
Supply voltage	
supply voltage / at AC / rated value	400 V
operating voltage	
<ul style="list-style-type: none"> at AC / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum 	277 V
<ul style="list-style-type: none"> at DC / rated value / maximum 	60 V
<ul style="list-style-type: none"> at DC / single channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum 	60 V
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> acc. to EN 60898 / rated value 	10 kA
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> at 30 °C / rated value 	20 A
<ul style="list-style-type: none"> at 40 °C / rated value 	20 A
<ul style="list-style-type: none"> at 45 °C / rated value 	19.4 A

<ul style="list-style-type: none"> • at 50 °C / rated value • at 55 °C / rated value • at 60 °C / rated value • at AC / rated value 	18.8 A 18.1 A 17.6 A 20 A	
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 component / neutral conductor switching	No	
product feature / touch protection	Yes	
product component <ul style="list-style-type: none"> • tunnel terminals top • tunnel terminals bottom • combined terminal top • combined terminal bottom 	No No Yes Yes	
product feature <ul style="list-style-type: none"> • halogen-free • sealable • silicon-free 	Yes Yes 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 (I _{cn}) / 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 <ul style="list-style-type: none"> • minimum • maximum 	0.75 mm ² 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	176 g	
Environmental conditions		
vibration resistance	50 m/s ² at 25 to 150Hz and 60m/s ² at 35Hz (4sec)	
ambient temperature / during operation <ul style="list-style-type: none"> • minimum • maximum 	55 °C -25 °C	
ambient temperature / during storage <ul style="list-style-type: none"> • minimum • maximum 	-40 °C 75 °C	
Certificates		
reference code <ul style="list-style-type: none"> • acc. to DIN EN 61346-2 • acc. to IEC 81346-2 	F F	
General Product Approval	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?mfb=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?mfb=5SJ4120-7HG42

CAX-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>



