



Circuit breaker 10kA, 2-pole, C, 20A according to UL 489-480Y/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	2
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 (Ui) / 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

<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	19 A 18.5 A 18 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 (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 <ul style="list-style-type: none">• minimum• maximum	0.75 mm² 25 mm²	
tightening torque / with screw-type terminals / maximum	3.5 N·m	
position / of power supply cord	Any	
Mechanical Design		
height	121 mm	
width	36 mm	
depth	70 mm	
installation depth	70 mm	
number of modular width units	2	
fastening method	on standard mounting rail	
mounting position	any	
net weight	339 g	
Environmental conditions		
vibration resistance	50 m/s² at 25 to 150Hz and 60m/s² 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?mlfb=5SJ4220-7HG42>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SJ4220-7HG42>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4220-7HG42

CAX-Online-Generator

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

Tender specifications

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



