

Circuit breaker 10kA, 2-pole, C, 20A according to UL 489-480Y/277V



Model	
Product brand name	SETRON
Product designation	Miniature circuit breakers
Design of the product	Miniature circuit-breaker 5SJ4
General technical data	
Number of poles	2
Number of poles / Note	2P
Tripping characteristic class	C
Installation environment regarding EMC	Suitable for environment B (immunity to interference not applicable)
circuit-breaker / Design	5SJ4
Mechanical service life (switching cycles) / typical	20 000
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
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 / 1-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 hot operating state / per pole	2.2 W
Current	
Tripping residual / rated value / derated current / at 40 Cel	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 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 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

- minimum
- maximum

1.5 mm²

25 mm²

Position / of power supply cord

Any

Mechanical Design

Height

121 mm

Width

36 mm

Depth

76 mm

Installation depth

70 mm

Number of width units

2

Mounting type

on standard mounting rail

Mounting position

any

Net weight

339 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

- minimum
- maximum

-25 °C

55 °C

Ambient temperature / during storage

- minimum
- maximum

-40 °C

75 °C

Certificates

Reference code

- acc. to DIN EN 61346-2
- acc. to DIN EN 81346-2

F

F

General Product Approval			Declaration of Conformity	Test Certificates
				Special Test Certificate
CCC	UL	VDE	EG-Konf.	

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>



