

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
Operating 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 extension / can be installed / supplementary devices	Yes

Product function

Product function / Note	Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in
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Short circuit

Breaking capacity short-circuit current (I _{cn}) / at AC / acc. to UL 1077 and CSA C22.2 No.235	10 kA
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Connections

Connectable conductor cross-section / finely stranded / with core end processing	
• minimum	1.5 mm ²
• maximum	25 mm ²
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/s ² at 25 to 150Hz and 60m/s ² at 35Hz (4sec)
Vibration resistance / acc. to IEC 60068-2-6	50 m/s ² at 25 to 150Hz and 60m/s ² at 35Hz (4sec)
Ambient temperature	
• 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 DIN EN 81346-2	F

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

Further information



