



Circuit breaker 10kA, 2-pole, C, 1A 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	1.7 W
Current	
operational current	
• at 30 °C / rated value	1 A
• at 40 °C / rated value	1 A
• at 45 °C / rated value	0.97 A

<ul style="list-style-type: none"><li>• at 50 °C / rated value</li><li>• at 55 °C / rated value</li><li>• at 60 °C / rated value</li><li>• at AC / rated value</li></ul>	0.9 A 0.9 A 0.88 A 1 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"><li>• tunnel terminals top</li><li>• tunnel terminals bottom</li><li>• combined terminal top</li><li>• combined terminal bottom</li></ul>	No No Yes Yes		
product feature <ul style="list-style-type: none"><li>• halogen-free</li><li>• sealable</li><li>• silicon-free</li></ul>	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"><li>• minimum</li><li>• maximum</li></ul>	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	340 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"><li>• minimum</li><li>• maximum</li></ul>	55 °C -25 °C		
ambient temperature / during storage <ul style="list-style-type: none"><li>• minimum</li><li>• maximum</li></ul>	-40 °C 75 °C		
Certificates			
reference code <ul style="list-style-type: none"><li>• acc. to DIN EN 61346-2</li><li>• acc. to IEC 81346-2</li></ul>	F F		
General Product Approval		Declaration of Conformity	Test Certificates



other

Further information

