



Circuit breaker 10kA, 3-pole, D, 0.5 A 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	3
design of pole	3P
tripping characteristic class	D
mechanical service life (operating cycles) typical	10 000
installation environment regarding EMC	Suitable for environment B (immunity to interference not applicable)
reference code according to DIN 40719 extended according to IEC 204-2 according 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
value range of the supply voltage frequency	50/60 Hz
operating voltage	
• at AC according to UL 489 and CSA C22.2 No. 5-02 maximum	277 V
• at DC rated value maximum	60 V
• at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum	60 V
• at DC 2-channel according 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	
• according to EN 60898 rated value	10 kA
• according 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	1.2 W
Current	
operational current	
• at 30 °C rated value	0.5 A

<ul style="list-style-type: none"><li>• at 40 °C rated value</li><li>• at 45 °C rated value</li><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>	0.5 A 0.48 A 0.46 A 0.44 A 0.42 A 0.5 A	
Main circuit		
type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02	480/277	
suitability for operation	Mechanical engineering / industry	
Product details		
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><li>• neutral conductor switching</li></ul>	No No Yes Yes No	
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		
short-circuit current breaking capacity (Icn) at AC according 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	54 mm	
depth	70 mm	
installation depth	70 mm	
number of modular width units	3	
fastening method	on standard mounting rail	
mounting position	any	
net weight	511 g	
Environmental conditions		
vibration resistance	50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)	
vibration resistance according to IEC 60068-2-6	±1 mm at 5 to 25 Hz; 50 m/s² at 25 to 150 Hz	
ambient temperature during operation <ul style="list-style-type: none"><li>• minimum</li><li>• maximum</li></ul>	55 °C -25 °C	
ambient temperature during operation	max. 95% humidity	
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>• according to EN 61346-2</li><li>• according to IEC 81346-2</li></ul>	F F	
General Product Approval		Declaration of Conformity

[Confirmation](#)



Declaration of  
Conformity

Test Certificates

other



EG-Konf.

[Special Test Certificate](#)

[Miscellaneous](#)

[Environmental Confirmations](#)

#### 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=5SJ4305-8HG42>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SJ4305-8HG42>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SJ4305-8HG42](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4305-8HG42)

CAX-Online-Generator

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

Tender specifications

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





