



miniature circuit breaker 10 kA, 1-pole, D, 0.5 A according to UL 489-277 V

Figure similar

Model	
product brand name	SENTRON
product designation	Miniature circuit breakers
design of the product	Miniature circuit-breaker 5SJ4
General technical data	
number of poles	1
design of pole	1P
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	
insulation voltage (U <sub>i</sub> ) at AC rated value	440 V
<ul style="list-style-type: none"> <li>● operational current                             <ul style="list-style-type: none"> <li>— at 30 °C rated value</li> <li>— at 40 °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> </ul> </li> <li>● operational current at AC rated value</li> </ul>	<ul style="list-style-type: none"> <li>1 A</li> <li>0.5 A</li> <li>0.46 A</li> <li>0.44 A</li> <li>0.42 A</li> <li>0.5 A</li> </ul>
Supply voltage	
supply voltage <ul style="list-style-type: none"> <li>● at AC</li> <li>● at DC rated value</li> </ul>	<ul style="list-style-type: none"> <li>400 V</li> <li>60 V</li> </ul>
operating voltage <ul style="list-style-type: none"> <li>● at AC according to UL 489 and CSA C22.2 No. 5-02 maximum</li> <li>● at DC rated value maximum</li> <li>● at DC 1-channel according to UL 489 and CSA C22.2 No. 5-02 maximum</li> <li>● at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum</li> </ul>	<ul style="list-style-type: none"> <li>277 V</li> <li>60 V</li> <li>60 V</li> <li>125 V</li> </ul>
supply voltage frequency rated value	50 Hz
Protection class	
protection class IP	IP 0 in the handle range

Breaking Capacity	
<b>switching capacity current</b>	
• 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
Main circuit	
<b>type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02</b>	480/277
<b>suitability for operation</b>	Infrastructure / Industry
Product details	
<b>product feature touch protection</b>	Yes
<b>product component</b>	
• tunnel terminals top	No
• tunnel terminals bottom	No
• combined terminal top	Yes
• combined terminal bottom	Yes
• neutral conductor switching	No
<b>product feature halogen-free</b>	Yes
<b>product feature sealable</b>	Yes
<b>product feature silicon-free</b>	Yes
<b>product extension installable supplementary devices</b>	Yes
Product function	
<b>set values setting current (Ii) for I-tripping</b>	13,5
<b>reference value setting current (Ii) for I-tripping</b>	x In
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	
<b>connectable conductor cross-section finely stranded with core end processing</b>	
• minimum	0.75 mm <sup>2</sup>
• maximum	25 mm <sup>2</sup>
tightening torque with screw-type terminals maximum	3.5 N·m
<b>position of power supply cord</b>	Any
Mechanical Design	
<b>height</b>	121 mm
<b>width</b>	18 mm
<b>depth</b>	70 mm
<b>installation depth</b>	70 mm
<b>number of modular width units</b>	1
<b>fastening method</b>	on standard mounting rail
<b>mounting position</b>	any
<b>Net Weight</b>	178 g
Environmental conditions	
<b>standard</b>	IEC / EN 60947-2 / UL 489
<b>vibration resistance</b>	50 m/s <sup>2</sup> at 25 to 150Hz and 60m/s <sup>2</sup> at 35Hz (4sec)
<b>vibration resistance according to IEC 60068-2-6</b>	±1 mm at 5 to 25 Hz; 50 m/s <sup>2</sup> at 25 to 150 Hz
<b>ambient temperature during operation</b>	
• minimum	-25 °C
• maximum	55 °C
<b>ambient temperature during operation</b>	max. 95% humidity
<b>ambient temperature during storage</b>	
• minimum	-40 °C
• maximum	75 °C
Approvals Certificates	
<b>Environment</b>	<b>General Product Approval</b>

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firmations](#)

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firmations](#)



#### General Product Approval

#### Test Certificates



[Confirmation](#)



EG-Konf.



[Special Test Certificate](#)

#### other

[Confirmation](#)



#### Further information

##### Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

##### Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

##### Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/lowvoltage/catalogs>

##### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SJ4105-8HG42>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SJ4105-8HG42>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SJ4105-8HG42](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4105-8HG42)

##### CAX-Online-Generator

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

##### Tender specifications

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

##### Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP="HAUPT"></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)



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