



Miniature circuit breaker 240 V 14kA, 1-pole, B, 50 A, D=70 mm according to UL 489, equal polarity

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	B
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
operational current	
• at 30 °C rated value	50 A
• at 40 °C rated value	50 A
• at 50 °C rated value	47.6 A
• at 55 °C rated value	46.3 A
• at 60 °C rated value	45 A
• at AC rated value	50 A
Supply voltage	
supply voltage	
• at AC	400 V
• at DC rated value	60 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	120 V
• at DC rated value maximum	60 V
• at DC 1-channel according to UL 489 and CSA C22.2 No. 5-02 maximum	60 V
supply voltage frequency rated value	50 Hz
Protection class	
protection class IP	IP20, with connected conductors, IP 40 in the handle range
Breaking Capacity	
switching capacity current	
• according to EN 60898 rated value	10 kA

<ul style="list-style-type: none"> <li>• according to IEC 60947-2 rated value</li> </ul>	15 kA
<b>Dissipation</b>	
power loss [W] for rated value of the current at AC in hot operating state per pole	6.3 W
<b>Main circuit</b>	
type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02	240/120
suitability for operation	Infrastructure / Industry
<b>Product details</b>	
product feature touch protection	Yes
product component	
<ul style="list-style-type: none"> <li>• tunnel terminals top</li> </ul>	No
<ul style="list-style-type: none"> <li>• tunnel terminals bottom</li> </ul>	No
<ul style="list-style-type: none"> <li>• combined terminal top</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• combined terminal bottom</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• neutral conductor switching</li> </ul>	No
<b>product feature</b>	
<ul style="list-style-type: none"> <li>• halogen-free</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• sealable</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• silicon-free</li> </ul>	Yes
product extension installable supplementary devices	Yes
<b>Product function</b>	
set values setting current (Ii) for I-tripping	4
reference value setting current (Ii) for I-tripping	x In
product function note	Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in
<b>Short circuit</b>	
short-circuit current breaking capacity (Icn) at AC according to UL 1077 and CSA C22.2 No.235	14 kA
<b>Connections</b>	
connectable conductor cross-section finely stranded with core end processing	
<ul style="list-style-type: none"> <li>• minimum</li> </ul>	0.75 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	25 mm <sup>2</sup>
tightening torque with screw-type terminals maximum	3.5 N·m
position of power supply cord	Any
<b>Mechanical Design</b>	
height	90 mm
width	18 mm
depth	70 mm
installation depth	70 mm
number of modular width units	1
<b>fastening method</b>	on standard mounting rail
mounting position	any
net weight	170 g
<b>Environmental conditions</b>	
standard	IEC / EN 60947-2 / UL 489
vibration resistance	50 m/s <sup>2</sup> at 25 to 150Hz and 60m/s <sup>2</sup> at 35Hz (4sec)
vibration resistance according to IEC 60068-2-6	±1 mm at 5 to 25 Hz; 50 m/s <sup>2</sup> at 25 to 150 Hz
ambient temperature during operation	
<ul style="list-style-type: none"> <li>• minimum</li> </ul>	-25 °C
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	55 °C
ambient temperature during operation	max. 95% humidity
ambient temperature during storage	
<ul style="list-style-type: none"> <li>• minimum</li> </ul>	-40 °C
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	75 °C
<b>Approvals Certificates</b>	
<b>General Product Approval</b>	



Confirmation



Test Certificates	other	Environment		
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[Special Test Certificate](#)

[Miscellaneous](#)

[Confirmation](#)

[Environmental Confirmations](#)

[Environmental Confirmations](#)

### Further information

Information on the packaging

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

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=5SJ4150-6HG40>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SJ4150-6HG40>

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

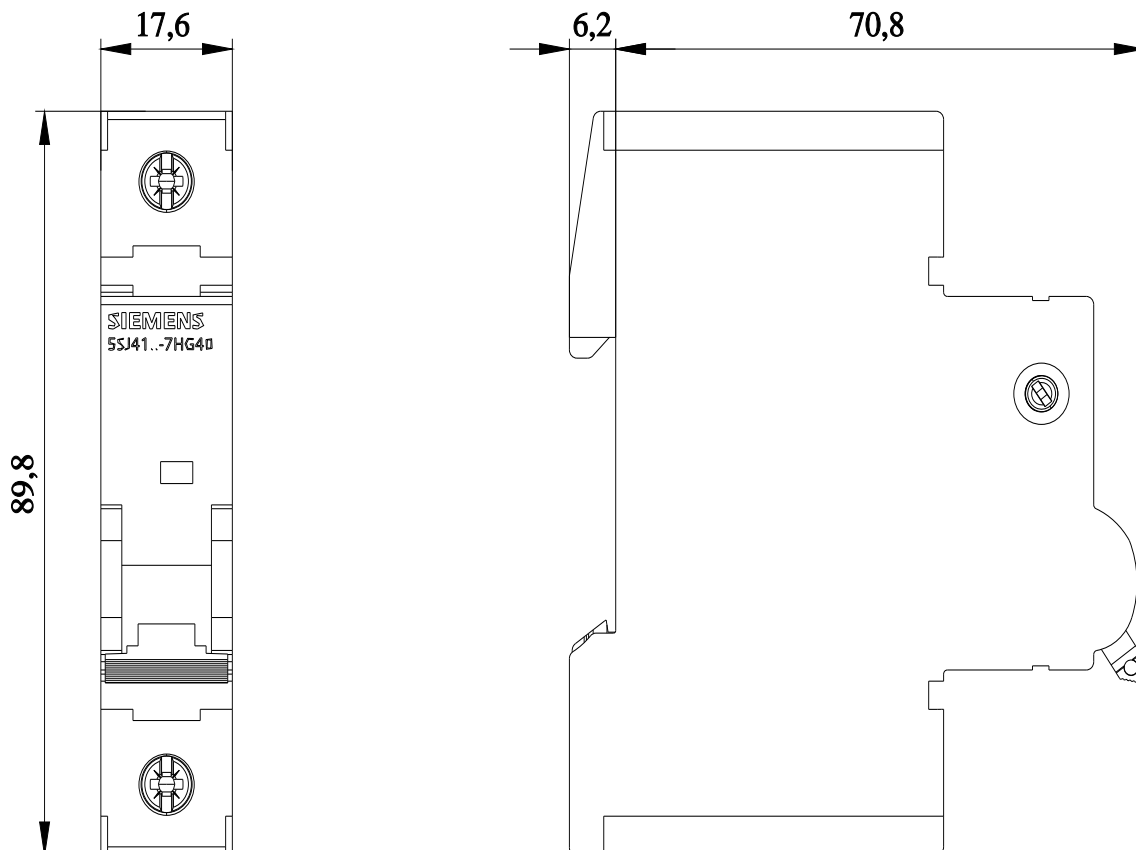
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SJ4150-6HG40](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4150-6HG40)

CAX-Online-Generator

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

Tender specifications

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



last modified:

8/22/2024

