## SIEMENS

## Data sheet

## 5SJ4150-6HG40



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

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	В
mechanical service life (switching 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	
<ul> <li>at AC according to UL 489 and CSA C22.2 No. 5-02 maximum</li> </ul>	120 V
<ul> <li>at DC rated value maximum</li> </ul>	60 V
<ul> <li>at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum</li> </ul>	60 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	
<ul> <li>according to EN 60898 rated value</li> </ul>	10 kA
<ul> <li>according to IEC 60947-2 rated value</li> </ul>	15 kA
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	6.3 W
Current	
operational current	
<ul> <li>at 30 °C rated value</li> </ul>	50 A
<ul> <li>at 40 °C rated value</li> </ul>	50 A
• at 45 °C rated value	49 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
Main circuit	
type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02	240/120
suitability for operation	Mechanical engineering / industry
Product details	
product component	
tunnel terminals top	No
tunnel terminals bottom	No
combined terminal top	Yes
combined terminal bottom	Yes
neutral conductor switching	No
-	NO
product feature	Ver
halogen-free	Yes
• sealable	Yes
• silicon-free	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 according to UL 1077 and CSA C22.2 No.235	14 kA
Connections	
connectable conductor cross-section finely stranded with core end processing	
minimum	0.75 mm²
• maximum	25 mm <sup>2</sup>
	3.5 N·m
tightening torque with screw-type terminals maximum position of power supply cord	
	Any
Mechanical Design	
height	90 mm
width	18 mm
depth	70 mm
installation depth	70 mm
number of modular width units	1
fastening method	on standard mounting rail
mounting position	any
net weight	170 g
Environmental conditions	
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	
minimum	55 °C
• maximum	-25 °C
ambient temperature during operation	max. 95% humidity
	max. 5570 number
ambient temperature during storage	40 °C
• minimum	-40 °C 75 °C
• maximum	75 °C
Certificates	
reference code	
<ul> <li>according to EN 61346-2</li> </ul>	F
according to IEC 81346-2	F
General Product Approval	Declaration of Conformity

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Test Certificates		other	
Miscellaneous	Special Test Certific- ate	Environmental Con- firmations	<u>Miscellaneous</u>

Further information

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

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SJ4150-6HG40}$ 

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, ...)

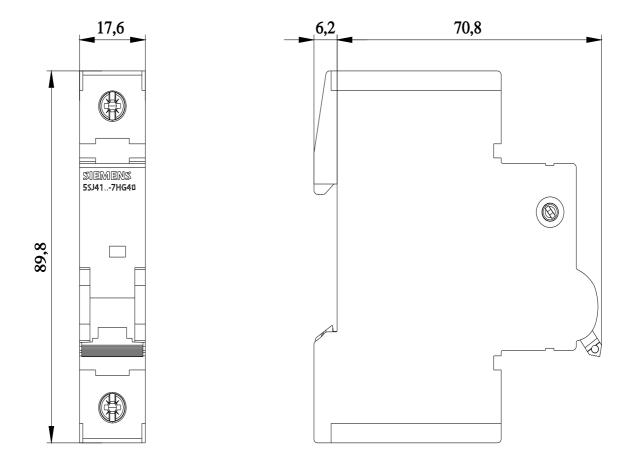
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=5SJ4150-6HG40

CAx-Online-Generator

http://www.siemens.com/cax

**Tender specifications** 

http://www.siemens.com/specifications



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