## **SIEMENS**

Data sheet 5SJ4145-7HG41



Miniature circuit breaker 240 V 10kA, 1-pole, C, 45 A, D=70 mm according to UL 489  $\,$ 

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	C
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 (Ui) at AC rated value	440 V
Supply voltage	
supply voltage	
<ul> <li>at AC rated value</li> </ul>	400 V
<ul> <li>at DC rated value</li> </ul>	60 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>	240 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
<ul> <li>at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum</li> </ul>	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	
<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	6.1 W
Current	
operational current	

<ul> <li>at 30 °C rated value</li> </ul>	45 A
<ul> <li>at 40 °C rated value</li> </ul>	45 A
<ul> <li>at 45 °C rated value</li> </ul>	43.7 A
<ul> <li>at 50 °C rated value</li> </ul>	42.8 A
<ul> <li>at 55 °C rated value</li> </ul>	41.7 A
<ul> <li>at 60 °C rated value</li> </ul>	41 A
at AC rated value	45 A
Main circuit	
type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02	240
suitability for operation	Mechanical engineering / industry
Product details	
product component	
<ul> <li>tunnel terminals top</li> </ul>	No
<ul> <li>tunnel terminals bottom</li> </ul>	No
<ul> <li>combined terminal top</li> </ul>	Yes
<ul> <li>combined terminal bottom</li> </ul>	Yes
<ul> <li>neutral conductor switching</li> </ul>	No
product feature	
<ul><li>halogen-free</li></ul>	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	
short-circuit current breaking capacity (Icn) at AC	10 kA
according to UL 1077 and CSA C22.2 No.235	
according to UL 1077 and CSA C22.2 No.235	
according to UL 1077 and CSA C22.2 No.235  Connections  connectable conductor cross-section finely stranded with	0.75 mm <sup>2</sup>
according to UL 1077 and CSA C22.2 No.235  Connections  connectable conductor cross-section finely stranded with core end processing	0.75 mm <sup>2</sup> 25 mm <sup>2</sup>
according to UL 1077 and CSA C22.2 No.235  Connections  connectable conductor cross-section finely stranded with core end processing  • minimum	
according to UL 1077 and CSA C22.2 No.235  Connections  connectable conductor cross-section finely stranded with core end processing  • minimum  • maximum	25 mm²
according to UL 1077 and CSA C22.2 No.235  Connections  connectable conductor cross-section finely stranded with core end processing  • minimum  • maximum  tightening torque with screw-type terminals maximum	25 mm <sup>2</sup> 3.5 N·m
according to UL 1077 and CSA C22.2 No.235  Connections  connectable conductor cross-section finely stranded with core end processing  • minimum  • maximum  tightening torque with screw-type terminals maximum position of power supply cord	25 mm <sup>2</sup> 3.5 N·m
according to UL 1077 and CSA C22.2 No.235  Connections  connectable conductor cross-section finely stranded with core end processing  • minimum  • maximum  tightening torque with screw-type terminals maximum position of power supply cord  Mechanical Design	25 mm² 3.5 N·m Any
according to UL 1077 and CSA C22.2 No.235  Connections  connectable conductor cross-section finely stranded with core end processing  • minimum  • maximum  tightening torque with screw-type terminals maximum position of power supply cord  Mechanical Design  height	25 mm² 3.5 N·m Any
according to UL 1077 and CSA C22.2 No.235  Connections  connectable conductor cross-section finely stranded with core end processing  • minimum  • maximum  tightening torque with screw-type terminals maximum position of power supply cord  Mechanical Design  height width	25 mm² 3.5 N·m Any  110 mm 18 mm
according to UL 1077 and CSA C22.2 No.235  Connections  connectable conductor cross-section finely stranded with core end processing  • minimum  • maximum  tightening torque with screw-type terminals maximum position of power supply cord  Mechanical Design  height width depth	25 mm² 3.5 N·m Any  110 mm 18 mm 70 mm
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Confirmation











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**Miscellaneous** 

**Environmental Con**firmations

Confirmation

## **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=5SJ4145-7HG41

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

https://support.industry.siemens.com/cs/ww/en/ps/5SJ4145-7HG41

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=5SJ4145-7HG41

**CAx-Online-Generator** 

http://www.siemens.com/cax

**Tender specifications** 

http://www.siemens.com/specifications





