SIEMENS

Data sheet 5SJ4245-7HG41



Miniature circuit breaker 240 V 10kA, 2-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	2
tripping characteristic class	С
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
operating voltage	
 at AC / according to UL 489 and CSA C22.2 No. 5- 02 / maximum 	240 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	6.1 W
Current	
operational current	
• at 30 °C / rated value	45 A
 at 40 °C / rated value 	45 A

 at 45 °C / rated value 	44.1 A
at 50 °C / rated value	43.2 A
 at 55 °C / rated value 	42.2 A
 at 60 °C / rated value 	41.4 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 / neutral conductor switching	No
product feature / touch protection	Yes
product component	
• tunnel terminals top	No
tunnel terminals bottom	No
combined terminal top	Yes
combined terminal bottom	Yes
product feature	
halogen-free	Yes
sealable	Yes
• silicon-free	Yes
product extension / installable / supplementary devices	Yes
Product function	100
product function / note	Terminal tightening targue for Cu. 60/75°C: 2 5Nm/24lh in
·	Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in
Short circuit	40 1-4
breaking capacity short-circuit current (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	
connectable conductor cross-section / finely stranded /	0.75 mm²
connectable conductor cross-section / finely stranded / with core end processing	0.75 mm ² 25 mm ²
connectable conductor cross-section / finely stranded / with core end processing • minimum	
connectable conductor cross-section / finely stranded / with core end processing minimum maximum	25 mm²
connectable conductor cross-section / finely stranded / with core end processing • minimum • maximum tightening torque / with screw-type terminals / maximum	25 mm² 3.5 N·m
connectable conductor cross-section / finely stranded / with core end processing	25 mm² 3.5 N·m
connectable conductor cross-section / finely stranded / with core end processing	25 mm² 3.5 N·m Any
connectable conductor cross-section / finely stranded / with core end processing	25 mm² 3.5 N·m Any 110 mm
connectable conductor cross-section / finely stranded / with core end processing	25 mm² 3.5 N·m Any 110 mm 36 mm
connectable conductor cross-section / finely stranded / with core end processing	25 mm² 3.5 N·m Any 110 mm 36 mm 70 mm
connectable conductor cross-section / finely stranded / with core end processing	25 mm² 3.5 N·m Any 110 mm 36 mm 70 mm 70 mm
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 installation depth number of modular width units	25 mm² 3.5 N·m Any 110 mm 36 mm 70 mm 70 mm
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 installation depth number of modular width units fastening method	25 mm² 3.5 N·m Any 110 mm 36 mm 70 mm 70 mm 2 on standard mounting rail
connectable conductor cross-section / finely stranded / with core end processing	25 mm² 3.5 N·m Any 110 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any
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 installation depth number of modular width units fastening method mounting position net weight	25 mm² 3.5 N·m Any 110 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any
connectable conductor cross-section / finely stranded / with core end processing	25 mm² 3.5 N·m Any 110 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any 367 g
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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 installation depth number of modular width units fastening method mounting position net weight Environmental conditions vibration resistance ambient temperature / during operation	25 mm² 3.5 N·m Any 110 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any 367 g 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)
connectable conductor cross-section / finely stranded / with core end processing	25 mm² 3.5 N·m Any 110 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any 367 g 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)
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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 installation depth number of modular width units fastening method mounting position net weight Environmental conditions vibration resistance ambient temperature / during operation • minimum • maximum ambient temperature / during storage	25 mm² 3.5 N·m Any 110 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any 367 g 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) 55 °C -25 °C
connectable conductor cross-section / finely stranded / with core end processing	25 mm² 3.5 N·m Any 110 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any 367 g 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) 55 °C -25 °C -40 °C
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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 installation depth number of modular width units fastening method mounting position net weight Environmental conditions vibration resistance ambient temperature / during operation • minimum • maximum ambient temperature / during storage • minimum • maximum Certificates reference code • according to EN 61346-2	25 mm² 3.5 N·m Any 110 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any 367 g 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) 55 °C -25 °C -40 °C 75 °C

Confirmation











Test Certificates other

<u>Miscellaneous</u> <u>Special Test Certific-</u> <u>Miscellaneous</u>

<u>ate</u>

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=5SJ4245-7HG41

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

https://support.industry.siemens.com/cs/ww/en/ps/5SJ4245-7HG41

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4245-7HG41

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications