SIEMENS

Data sheet 5SJ4150-7HG41



Miniature circuit breaker 240 V 10kA, 1-pole, C, 50 A, D=70 mm according to UL 489

Figure similar

product brand name product designation design of the product General technical data number of poles 1 tripping characteristic class nechnical service life (operating cycles) typical installation environment regarding EMC reference code according to DIN 40719 extended according to EEC 204-2 according to EEC 750 overvoltage category degree of pollution Voltage insulation voltage (UI) at AC rated value e at 30° C rated value e at 60° C rated value sol AC according to EEC 750 Supply voltage e at AC C rated value e at AC according to UL 489 and CSA C22.2 No. 5-02 maximum e at DC 7-channel according to UL 489 and CSA C22.2 No. 5-02 maximum supply voltage frequency rated value e at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum supply voltage frequency rated value free according to UL 489 and CSA C22.2 No. 5-02 maximum supply voltage frequency rated value free according to UL 489 and CSA C22.2 No. 5-02 maximum supply voltage frequency rated value free according to UL 489 and CSA C22.2 No. 5-02 maximum supply voltage frequency rated value free according to UL 489 and CSA C22.2 No. 5-02 maximum supply voltage frequency rated value free according to UL 489 and CSA C22.2 No. 5-02 maximum supply volt	Model	
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Central technical data	product designation	Miniature circuit breakers
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Supply voltage supply voltage at AC at DC rated value 60 V value range of the supply voltage frequency operating voltage at AC according to UL 489 and CSA C22.2 No. 5-02 maximum at DC rated value maximum at DC rated value maximum at DC 1-channel according to UL 489 and CSA C22.2 No. 5-02 maximum at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum at DC 2-channel according to UL 489 and CSA C22.2 No. 125 V 5-02 maximum supply voltage frequency rated value Protection class protection class IP	 at 60 °C rated value 	45 A
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value range of the supply voltage frequency operating voltage • at AC according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC rated value maximum • at DC 1-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum supply voltage frequency rated value Protection class Protection class IP IP20, with connected conductors, IP 40 in the handle range	• at AC	400 V
operating voltage • at AC according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC rated value maximum • at DC 1-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum supply voltage frequency rated value Protection class Protection class IP IP20, with connected conductors, IP 40 in the handle range	at DC rated value	60 V
 at AC according to UL 489 and CSA C22.2 No. 5-02 maximum at DC rated value maximum at DC 1-channel according to UL 489 and CSA C22.2 No. 5-02 maximum at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum supply voltage frequency rated value Protection class IP20, with connected conductors, IP 40 in the handle range 	value range of the supply voltage frequency	50/60 Hz
maximum • at DC rated value maximum • at DC 1-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum supply voltage frequency rated value Protection class protection class IP IP20, with connected conductors, IP 40 in the handle range	operating voltage	
at DC 1-channel according to UL 489 and CSA C22.2 No. 5-02 maximum at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum supply voltage frequency rated value 50 Hz Protection class protection class IP IP20, with connected conductors, IP 40 in the handle range		240 V
5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum supply voltage frequency rated value 50 Hz Protection class protection class IP IP20, with connected conductors, IP 40 in the handle range	 at DC rated value maximum 	60 V
5-02 maximum supply voltage frequency rated value Frotection class protection class IP IP20, with connected conductors, IP 40 in the handle range		60 V
Protection class protection class IP IP20, with connected conductors, IP 40 in the handle range		125 V
protection class IP IP20, with connected conductors, IP 40 in the handle range	supply voltage frequency rated value	50 Hz
· · · · · · · · · · · · · · · · · · ·	Protection class	
Breaking Capacity	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
according to IEC 60947-2 rated value	15 kA
Dissipation	
power loss [W] for rated value of the current at AC in hot	6.3 W
operating state per pole	
Main circuit	040
type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02	240
suitability for operation	Infrastructure / Industry
Product details	
product feature touch protection	Yes
product component	
tunnel terminals top	No
tunnel terminals bottom	No
 combined terminal top 	Yes
combined terminal bottom	Yes
neutral conductor switching	No
product feature	
• halogen-free	Yes
sealable	Yes
• silicon-free	Yes
product extension installable supplementary devices	Yes
Product function	
set values setting current (li) for I-tripping	7,5
reference value setting current (li) for I-tripping	x In
product function note	Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in
Short circuit	2
short-circuit current breaking capacity (Icn) at AC according to	10 kA
UL 1077 and CSA C22.2 No.235	
Connections	
connectable conductor cross-section finely stranded with core	
end processing	0.75 mm ²
end processing	0.75 mm ²
end processing	25 mm²
end processing	25 mm² 3.5 N·m
end processing	25 mm²
end processing	25 mm ² 3.5 N·m Any
end processing	25 mm² 3.5 N·m Any
end processing	25 mm² 3.5 N·m Any 110 mm 18 mm
end processing	25 mm² 3.5 N·m Any 110 mm 18 mm 70 mm
end processing • minimum • maximum tightening torque with screw-type terminals maximum position of power supply cord Mechanical Design height width depth installation depth	25 mm² 3.5 N·m Any 110 mm 18 mm 70 mm 70 mm
end processing	25 mm² 3.5 N·m Any 110 mm 18 mm 70 mm 70 mm 1
end processing	25 mm² 3.5 N·m Any 110 mm 18 mm 70 mm 70 mm 1 on standard mounting rail
end processing	25 mm² 3.5 N·m Any 110 mm 18 mm 70 mm 70 mm 1 on standard mounting rail any
end processing	25 mm² 3.5 N·m Any 110 mm 18 mm 70 mm 70 mm 1 on standard mounting rail
end processing	25 mm² 3.5 N·m Any 110 mm 18 mm 70 mm 70 mm 1 on standard mounting rail any 178 g
end processing	25 mm² 3.5 N·m Any 110 mm 18 mm 70 mm 70 mm 1 on standard mounting rail any 178 g IEC / EN 60947-2 / UL 489
end processing	25 mm² 3.5 N·m Any 110 mm 18 mm 70 mm 70 mm 1 on standard mounting rail any 178 g IEC / EN 60947-2 / UL 489 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)
end processing	25 mm² 3.5 N·m Any 110 mm 18 mm 70 mm 70 mm 1 on standard mounting rail any 178 g IEC / EN 60947-2 / UL 489
end processing	25 mm² 3.5 N·m Any 110 mm 18 mm 70 mm 70 mm 1 on standard mounting rail any 178 g IEC / EN 60947-2 / UL 489 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) ±1 mm at 5 to 25 Hz; 50 m/s² at 25 to 150 Hz
end processing	25 mm² 3.5 N·m Any 110 mm 18 mm 70 mm 70 mm 1 on standard mounting rail any 178 g IEC / EN 60947-2 / UL 489 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) ±1 mm at 5 to 25 Hz; 50 m/s² at 25 to 150 Hz
end processing	25 mm² 3.5 N·m Any 110 mm 18 mm 70 mm 70 mm 1 on standard mounting rail any 178 g IEC / EN 60947-2 / UL 489 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) ±1 mm at 5 to 25 Hz; 50 m/s² at 25 to 150 Hz -25 °C 55 °C
end processing	25 mm² 3.5 N·m Any 110 mm 18 mm 70 mm 70 mm 1 on standard mounting rail any 178 g IEC / EN 60947-2 / UL 489 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) ±1 mm at 5 to 25 Hz; 50 m/s² at 25 to 150 Hz
end processing	25 mm² 3.5 N·m Any 110 mm 18 mm 70 mm 70 mm 1 on standard mounting rail any 178 g IEC / EN 60947-2 / UL 489 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) ±1 mm at 5 to 25 Hz; 50 m/s² at 25 to 150 Hz -25 °C 55 °C max. 95% humidity
end processing	25 mm² 3.5 N·m Any 110 mm 18 mm 70 mm 70 mm 1 on standard mounting rail any 178 g IEC / EN 60947-2 / UL 489 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) ±1 mm at 5 to 25 Hz; 50 m/s² at 25 to 150 Hz -25 °C 55 °C max. 95% humidity -40 °C
end processing	25 mm² 3.5 N·m Any 110 mm 18 mm 70 mm 70 mm 1 on standard mounting rail any 178 g IEC / EN 60947-2 / UL 489 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) ±1 mm at 5 to 25 Hz; 50 m/s² at 25 to 150 Hz -25 °C 55 °C max. 95% humidity
end processing	25 mm² 3.5 N·m Any 110 mm 18 mm 70 mm 70 mm 1 on standard mounting rail any 178 g IEC / EN 60947-2 / UL 489 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) ±1 mm at 5 to 25 Hz; 50 m/s² at 25 to 150 Hz -25 °C 55 °C max. 95% humidity -40 °C



Confirmation









Test Certificates	other	Environment
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Special Test Certific-

Confirmation

Miscellaneous

Environmental Confirmations

Environmental Con-firmations

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=5SJ4150-7HG41

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

https://support.industry.siemens.com/cs/ww/en/ps/5SJ4150-7HG4

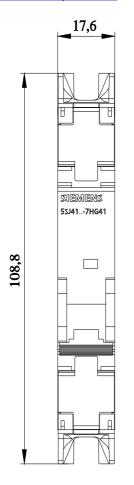
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4150-7HG41

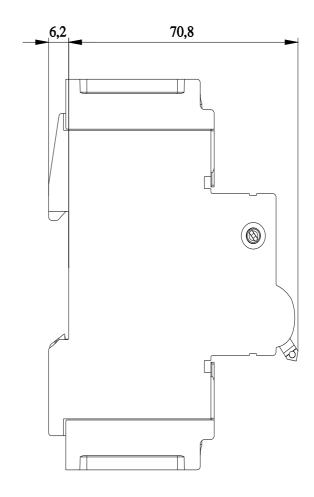
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications





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8/22/2024

