SIEMENS

Data sheet 5SJ4208-7HG41



Miniature circuit breaker 240 V 14kA, 2-pole, C, 8A, D=70 mm according to UL 489

Figure similar

product brand name product designation design of the product design of the product design of the product design of the product number of poles 2 design of pole 2 tripping characteristic class Cemeral rechnical data number of poles 2 tripping characteristic class Cemeral rechnical service life (operating cycles) typical installation environment regarding EMC reference code according to DIN 40719 extended according to EC 204-2 according to EC 750 overvoltage category degree of pollution 3 voltage insulation voltage (UI) at AC rated value 440 V operational current 4 at 30 °C rated value 4 at 50 °C rated value 4 at 60 °C rated value 5 at 60 °C rated value 7 .6 A 4 at 60 °C rated value 8 A 4 at 60 °C rated value 8 A 9 at AC rated value 8 A 9 at AC rated value 9 at AC C rated value 9	Model	
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Central technical data Case Cas	product designation	Miniature circuit breakers
number of poles 2 2 2 2 2 2 2 2 2	design of the product	Miniature circuit-breaker 5SJ4
design of pole 2P 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 overvoltage category 3 degree of pollution 3 Voltage insulation voltage (Ui) at AC rated value 440 V operational current 4 8 A e at 30 °C rated value 8 A e at 40 °C rated value 8 A e at 50 °C rated value 7,6 A e at 50 °C rated value 7,6 A e at 50 °C rated value 8,A Supply voltage supply voltage supply voltage supply voltage e at AC e at DC rated value 60 V value range of the supply voltage frequency operating voltage e at AC Caccording to UL 489 and CSA C22.2 No. 5-02 maximum e at DC rated value maximum e at DC 1-channel according to UL 489 and CSA C22.2 No. 5-02 maximum e at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum supply voltage frequency rated value 90 V supply voltage frequency 125 V supply voltage 125 V supply voltage 125 V supply voltage	General technical data	
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at 60 °C rated value at AC rated value supply voltage at AC at DC rated value 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 at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum supply voltage frequency rated value protection class protection class IP	 at 50 °C rated value 	7.6 A
at AC rated value 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 protection class IP20, with connected conductors, IP 40 in the handle range	• at 55 °C rated value	7.4 A
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 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. 5-02 maximum at DC 2-channel according to UL 489 and CSA C22.2 No. 125 V 5-02 maximum at DC 2-channel according to UL 489 and CSA C22.2 No. 125 V 5-02 maximum at DC 2-channel according to UL 489 and CSA C22.2 No. 125 V 5-02 maximum at DC 2-channel according to UL 489 and CSA C22.2 No. 125 V 5-02 maximum at DC 3-channel according to UL 489 and CSA C22.2 No. 125 V 5-02 maximum at DC 3-channel according to UL 489 and CSA C22.2 No. 125 V 5-02 maximum at DC 3-channel according to UL 489 and CSA C22.2 No. 125 V 5-02 maximum at DC 3-channel according to UL 489 and CSA C22.2 No. 125 V	 at 60 °C rated value 	7.2 A
supply voltage • at AC • at DC rated value **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 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 rated value 	8 A
at AC 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 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 supply voltage frequency rated value Protection class protection class IP IP20, with connected conductors, IP 40 in the handle range	Supply voltage	
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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
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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	2.6 W
operating state per pole	
Main circuit	0.40
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 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	
short-circuit current breaking capacity (Icn) at AC according to UL 1077 and CSA C22.2 No.235	14 kA
Connections	
connections connectable conductor cross-section finely stranded with core end processing	
connectable conductor cross-section finely stranded with core	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 • minimum • maximum tightening torque with screw-type terminals maximum position of power supply cord Mechanical Design	25 mm² 3.5 N·m
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
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 36 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	25 mm² 3.5 N·m 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	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 • 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	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
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	25 mm² 3.5 N·m Any 110 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any 328 g
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 standard	25 mm² 3.5 N·m Any 110 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any 328 g IEC / EN 60947-2 / UL 489
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 standard vibration resistance	25 mm² 3.5 N·m Any 110 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any 328 g IEC / EN 60947-2 / UL 489 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)
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 standard vibration resistance vibration resistance according to IEC 60068-2-6	25 mm² 3.5 N·m Any 110 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any 328 g IEC / EN 60947-2 / UL 489
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 standard vibration resistance vibration resistance according to IEC 60068-2-6 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 328 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
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 standard vibration resistance vibration resistance according to IEC 60068-2-6 ambient temperature during operation • minimum	25 mm² 3.5 N·m Any 110 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any 328 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
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 standard vibration resistance vibration resistance according to IEC 60068-2-6 ambient temperature during operation • minimum • maximum	25 mm² 3.5 N·m Any 110 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any 328 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 55 °C -25 °C
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 standard vibration resistance vibration resistance according to IEC 60068-2-6 ambient temperature during operation • minimum • maximum 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 328 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
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 standard vibration resistance vibration resistance according to IEC 60068-2-6 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 328 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 55 °C -25 °C max. 95% humidity
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 standard vibration resistance vibration resistance according to IEC 60068-2-6 ambient temperature during operation • minimum • maximum ambient temperature during storage • minimum	25 mm² 3.5 N·m Any 110 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any 328 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 55 °C -25 °C max. 95% humidity -40 °C
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 standard vibration resistance vibration resistance according to IEC 60068-2-6 ambient temperature during operation • minimum • maximum ambient temperature during storage • minimum • maximum • maximum	25 mm² 3.5 N·m Any 110 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any 328 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 55 °C -25 °C max. 95% humidity
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 standard vibration resistance vibration resistance according to IEC 60068-2-6 ambient temperature during operation • minimum • maximum ambient temperature during storage • minimum	25 mm² 3.5 N·m Any 110 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any 328 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 55 °C -25 °C max. 95% humidity -40 °C





Confirmation







General Product Approval

Test Certificates

other

Environment

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

Confirmation

Miscellaneous

Environmental Con**firmations**

Environmental Confirmations

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=5SJ4208-7HG41

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

https://support.industry.siemens.com/cs/ww/en/ps/5SJ4208-7HG41

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

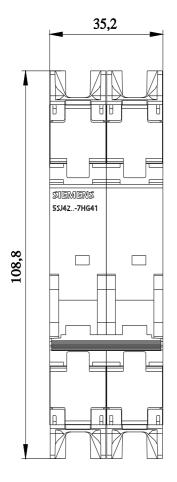
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4208-7HG41

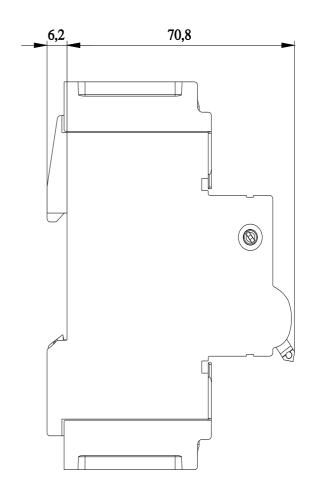
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications





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3/12/2024

