SIEMENS

Data sheet 5SJ4105-7HG42



Circuit breaker 10kA, 1-pole, C, 0.5 A according to UL 489-277V

Figure similar

product brand name product designation design of the product design of pole 1P design of pole 1P dripping characteristic class mechanical service life (operating cycles) typical installation environment regarding EMC Suitable for environment B (immunity to interference not applicable) reference code according to DIN 40719 extended according to EC 204-2 according to DIN 40719 extended according to EC 204-2 according to EC 750 overvoltage category 3 degree of pollution 3 voltage Insulation voltage (U) at AC rated value 0.5 A at 50 °C rated value 1 A 1 A 1 A 1 B 1 C rated value 1 A 1 A 1 B 1 C rated value 1 A 1 A 1 B 1 C rated value 1 A 1 A 1 B 1 C rated value 1 A 1 A 1 C rated value 1 A 1 A 1 C rated value 1 A C according to UL 489 and CSA C22.2 No. 5-02 maximum 1 A D C rated value 1 A C C c C c C c C c C c C c C c C c C c	Model	
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at 80 °C rated value at AC rated value outside supply voltage supply voltage at AC at DC rated value outside at AC according to UL 489 and CSA C22.2 No. 5-02 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 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 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 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 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 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 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 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 at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum at DC 3-channel according to UL 489 an	 at 50 °C rated value 	0.46 A
at AC rated value Supply voltage 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 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 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 according to UL 489 and CSA C22.2 No. 5-02 No. 125 V 5-02 maximum at DC 3-channel according to UL 489 and CSA C22.2 No. 125 V 5-02 maximum according to UL 489 and CSA C22.2 No. 125 V 5-02 maximum according to UL 489 and CSA C22.2 No. 125 V 5-02 maximum according to UL 489 and CSA C22.2 No. 125 V 5-02 maximum according to UL 489 and CSA C22.2 No. 125 V 5-02 maximum according to UL 489 and CSA C22.2 No. 125 V 5-02 maximum according to UL 489 and CSA C22.2 No. 125 V 5-02 maximum according to UL 489 and CSA C22.2 No. 125 V 5-02 maximum according to UL 489 and CSA C22.2 No. 125 V 5-02 maximum according to UL 489 and CSA C22.2 No. 125 V	 at 55 °C rated value 	0.44 A
Supply voltage 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 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. 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. 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 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 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 at DC 3-channel according to UL 489 and CSA C22.	 at 60 °C rated value 	0.42 A
supply voltage • at AC • at DC rated value 60 V 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 3-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 Breaking Capacity	 at AC rated value 	0.5 A
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 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 Breaking Capacity	Supply voltage	
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 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 Breaking Capacity	supply voltage	
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 Breaking Capacity	• at AC	400 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 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 Breaking Capacity	at DC rated value	60 V
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 Breaking Capacity 60 V 60 V 50 Hz 125 V 125	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 Frotection class protection class IP IP20, with connected conductors, IP 40 in the handle range Breaking Capacity 60 V 125 V 125 V 127 Protection class IP		277 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 Breaking Capacity	• at DC rated value maximum	60 V
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 Breaking Capacity		60 V
Protection class protection class IP IP20, with connected conductors, IP 40 in the handle range Breaking Capacity		125 V
protection class IP IP20, with connected conductors, IP 40 in the handle range Breaking Capacity	supply voltage frequency rated value	50 Hz
Breaking Capacity	Protection class	
	protection class IP	IP20, with connected conductors, IP 40 in the handle range
switching capacity current	Breaking Capacity	
	switching capacity current	

	4014
according to EN 60898 rated value	10 kA
according to IEC 60947-2 rated value	15 kA
Dissipation	AOW
power loss [W] for rated value of the current at AC in hot operating state per pole	1.2 W
Main circuit	
type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02	480/277
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 (Ii) 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	10 kA
Connections	
connectable conductor cross-section finely stranded with core	
connectable conductor cross-section finely stranded with core end processing	
	0.75 mm²
end processing	0.75 mm² 25 mm²
end processing • minimum	
end processing • minimum • maximum	25 mm²
end processing	25 mm² 3.5 N·m
end processing	25 mm² 3.5 N·m
end processing	25 mm² 3.5 N·m Any
end processing	25 mm² 3.5 N·m Any 121 mm
end processing	25 mm² 3.5 N·m Any 121 mm 18 mm
end processing	25 mm² 3.5 N·m Any 121 mm 18 mm 70 mm
end processing	25 mm² 3.5 N·m Any 121 mm 18 mm 70 mm 70 mm
end processing	25 mm² 3.5 N·m Any 121 mm 18 mm 70 mm 70 mm
end processing	25 mm² 3.5 N·m Any 121 mm 18 mm 70 mm 70 mm 1 on standard mounting rail
end processing	25 mm² 3.5 N·m Any 121 mm 18 mm 70 mm 70 mm 1 on standard mounting rail any
end processing	25 mm² 3.5 N·m Any 121 mm 18 mm 70 mm 70 mm 1 on standard mounting rail any
end processing	25 mm² 3.5 N·m Any 121 mm 18 mm 70 mm 70 mm 1 on standard mounting rail any 180 g
end processing	25 mm² 3.5 N·m Any 121 mm 18 mm 70 mm 70 mm 1 on standard mounting rail any 180 g IEC / EN 60947-2 / UL 489
end processing	25 mm² 3.5 N·m Any 121 mm 18 mm 70 mm 70 mm 1 on standard mounting rail any 180 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 121 mm 18 mm 70 mm 70 mm 1 on standard mounting rail any 180 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 121 mm 18 mm 70 mm 70 mm 1 on standard mounting rail any 180 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 121 mm 18 mm 70 mm 70 mm 1 on standard mounting rail any 180 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 121 mm 18 mm 70 mm 70 mm 1 on standard mounting rail any 180 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 121 mm 18 mm 70 mm 70 mm 1 on standard mounting rail any 180 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 121 mm 18 mm 70 mm 70 mm 1 on standard mounting rail any 180 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
end processing	25 mm² 3.5 N·m Any 121 mm 18 mm 70 mm 70 mm 1 on standard mounting rail any 180 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
end processing	25 mm² 3.5 N·m Any 121 mm 18 mm 70 mm 70 mm 1 on standard mounting rail any 180 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>

Miscellaneous

Confirmation

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=5SJ4105-7HG42

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

https://support.industry.siemens.com/cs/ww/en/ps/5SJ4105-7HG42

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

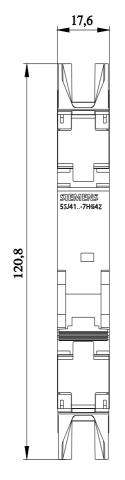
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4105-7HG42

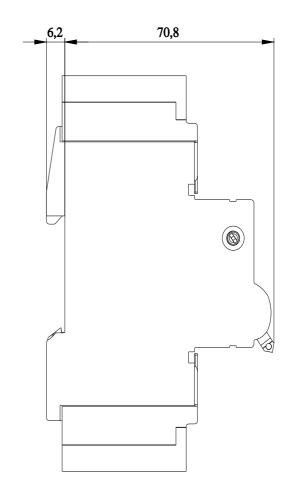
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications





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3/12/2024

