SIEMENS

Data sheet 5SJ4113-7HG41

CIRCUIT BREAKER 240V 14KA, 1-POLE, C, 13A, D=70MM ACC. 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
Number of poles / Note	1P
Tripping characteristic class	С
Installation environment regarding EMC	Suitable for environment B (immunity to interference not applicable)
circuit-breaker / Design	5SJ4
Mechanical service life (switching cycles) / typical	20 000
Equipment marking / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750	F
Overvoltage category	3
Voltage	
Type of voltage	AC/DC
Insulation voltage / at AC / rated value	440 V

Supply voltage / at AC / rated value 50 Hz Protection class IP IP20, with connected conductors, IP 40 in the handle range Switching capacity Switching capacity Switching capacity Switching capacity current • acc. to EN 60988 / rated value 10 kA • acc. 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 • maximum 1 W Electricity rated current In / IEC, DINVDE / at 40 Cel 13 A Current / at AC / rated value 13 A Main circuit Type of voltage supply / at AC / acc. to UL 489 and CSA C22.2 No. 5-02 Operating voltage • minimum • at AC / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / 1-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / 1-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / 1-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / 1-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / 1-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / 1-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / 1-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / rated value / maximum • at DC / connel / acc. to UL 489 and CSA C222 No. 5-02 / maximum • at DC / connel / acc. to UL 489 and CSA C222 No. 5-02 / maximum • at DC / connel / acc. to UL		
Supply voltage frequency / rated value Protection class Protection class IP IP20, with connected conductors, IP 40 in the handle range Switching capacity Switching capacity Switching capacity urrent • acc. to EN 60898 / rated value • acc. to IEC 60947-2 / rated value 10 kA • acc. to IEC 60947-2 / rated value 115 kA Dissipation Power loss [M] • for rated value of the current / at AC / in hot operating state / per pole • maximum 1 W Electricity rated current In / IEC, DIN/VDE / at 40 Cel 13 A Current / at AC / rated value 13 A Main circuit Type of voltage supply / at AC / acc. to UL 489 and CSA C22.2 No. 5-02 Operating voltage • minimum • at DC / 1-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / 2-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / rated value / maximum •	Supply voltage	
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Protection class IP IP20, with connected conductors, IP 40 in the handle range Switching capacity Switching capacity Switching capacity current • acc. to EN 60898 / rated value • acc. to IEC 60947-2 / rated value 10 kA • acc. to IEC 60947-2 / rated value 110 kA • acc. to IEC 60947-2 / rated value 110 kA 11	Supply voltage frequency / rated value	50 Hz
Switching capacity Switching capacity current • acc. to EN 60898 / rated value • acc. to IEC 60947-2 / rated value 10 kA • acc. 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 • maximum 1 W Electricity rated current In / IEC, DINV/DE / at 40 Cel 13 A Current / at AC / rated value 13 A Main circuit Type of voltage supply / at AC / acc. to UL 489 and CSA C22.2 No. 5-02 Operating voltage • minimum • at AC / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / 1-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / raximum • at DC / 2-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / rated value / maximum • at DC / rat	Protection class	
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Switching capacity current acc. to EN 60989 / rated value acc. to IEC 60947-2 / rated value 10 kA rated current loss [W] for rated value of the current / at AC / in hot operating state / per pole maximum 1 W Electricity rated current In / IEC, DIN/VDE / at 40 Cel Type of voltage supply / at AC / acc. to UL 489 and CSA C22.2 No. 5-02 Operating voltage minimum at DC / 1-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum at DC / 2-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum at DC / 2-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum at DC / rated value / maximum at DC	Switching capacity	
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Power loss [W] • for rated value of the current / at AC / in hot operating state / per pole • maximum 1 W Electricity rated current In / IEC, DIN/VDE / at 40 Cel Current / at AC / rated value 13 A Main circuit Type of voltage supply / at AC / acc. to UL 489 and CSA C22.2 No. 5-02 Operating voltage • minimum • at AC / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / 1-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / 2-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / rated value / ma	• acc. to EN 60898 / rated value	10 kA
Power loss [W] • for rated value of the current / at AC / in hot operating state / per pole • maximum 1 W Electricity rated current In / IEC, DIN/VDE / at 40 Cel 13 A Main circuit Type of voltage supply / at AC / acc. to UL 489 and CSA C22.2 No. 5-02 Operating voltage • minimum • at AC / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / 1-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / 1-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / 1-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / 1-channel / acc. to UL 489 and CSA C22.2 No. 5-02 maximum • at DC / rated value / m	• acc. to IEC 60947-2 / rated value	15 kA
• for rated value of the current / at AC / in hot operating state / per pole • maximum 1 W I W	Dissipation	
operating state / per pole	Power loss [W]	
Electricity rated current In / IEC, DIN/VDE / at 40 Cel Current / at AC / rated value 13 A Main circuit Type of voltage supply / at AC / acc. to UL 489 and CSA C22.2 No. 5-02 Operating voltage • minimum • at AC / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / 1-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / 2-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / 2-channel / acc. 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 • Tunnel terminals top • Tunnel terminals bottom • Combined terminal top Yes		1.7 W
rated current In / IEC, DIN/VDE / at 40 Cel Current / at AC / rated value 13 A Main circuit Type of voltage supply / at AC / acc. to UL 489 and CSA C22.2 No. 5-02 Operating voltage • minimum • at AC / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / 1-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC /2-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC /2-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC /2-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / rated value / maximum • Tunnel terminals top Product certains Product certains Product certains Product details	• maximum	1 W
rated current In / IEC, DIN/VDE / at 40 Cel Current / at AC / rated value 13 A Main circuit Type of voltage supply / at AC / acc. to UL 489 and CSA C22.2 No. 5-02 Operating voltage • minimum • at AC / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / 1-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC /2-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC /2-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC /2-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / rated value / maximum • Tunnel terminals top Product certains Product certains Product certains Product details	Electricity	
Type of voltage supply / at AC / acc. to UL 489 and CSA C22.2 No. 5-02 Operating voltage • minimum • at AC / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / 1-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / 2-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / 2-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / 2-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / rated value / maximum • Tunnel terminals top Product details Product details Product component • Tunnel terminals bottom • Tunnel terminals bottom • Combined terminal top Yes		13 A
Type of voltage supply / at AC / acc. to UL 489 and CSA C22.2 No. 5-02 Operating voltage • minimum • at AC / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / 1-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / 2-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / 2-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / rated value / maximum • at DC / rated value / maximum • Tunnel terminals top • Tunnel terminals bottom • Tunnel terminals bottom • combined terminal top Yes	Current / at AC / rated value	13 A
CSA C22.2 No. 5-02 Operating voltage • minimum • at AC / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / 1-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / 2-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / 2-channel / acc. 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 • Tunnel terminals top • Tunnel terminals top • Tunnel terminals bottom • Tunnel terminal top • combined terminal top Yes	Main circuit	
minimum at AC / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum at DC / 1-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum at DC / 2-channel / acc. 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 Product details Product details Product component Tunnel terminals top No Tunnel terminals bottom combined terminal top Yes		240
at AC / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum at DC / 1-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum at DC / 2-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum at DC / 2-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum at DC / rated value / maximum at DC / rated value / maximum but at DC / rated value / maximum for operation Mechanical engineering / industry Product details Product details Product component Tunnel terminals top Tunnel terminals bottom Tunnel terminals bottom combined terminal top Yes	Operating voltage	
/ maximum • at DC / 1-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / 2-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / rated value / maximum • at DC / rated value / maximum 60 V Suitability for operation Mechanical engineering / industry Product details Product details Product component • Tunnel terminals top • Tunnel terminals bottom • Tunnel terminals bottom • combined terminal top Yes	• minimum	24 V
C22.2 No. 5-02 / maximum • at DC / 2-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / rated value / maximum • at DC / rated value / maximum 60 V Suitability for operation Mechanical engineering / industry Product details Product feature / Touch protection Product component • Tunnel terminals top • Tunnel terminals bottom • combined terminal top Yes		240 V
C22.2 No. 5-02 / maximum • at DC / rated value / maximum 60 V Suitability for operation Mechanical engineering / industry Product details Product feature / Touch protection Product component • Tunnel terminals top • Tunnel terminals bottom • combined terminal top Yes		60 V
Suitability for operation Mechanical engineering / industry Product details Product feature / Touch protection Product component • Tunnel terminals top • Tunnel terminals bottom • combined terminal top Mechanical engineering / industry Yes		125 V
Product details Product feature / Touch protection Product component • Tunnel terminals top • Tunnel terminals bottom • combined terminal top Yes No Yes	• at DC / rated value / maximum	60 V
Product feature / Touch protection Product component Tunnel terminals top Tunnel terminals bottom combined terminal top Yes No Yes	Suitability for operation	Mechanical engineering / industry
Product component	Product details	
 Tunnel terminals top Tunnel terminals bottom combined terminal top No Yes 	Product feature / Touch protection	Yes
 Tunnel terminals bottom combined terminal top Yes 	Product component	
• combined terminal top Yes	 Tunnel terminals top 	No
combined to mind top	 Tunnel terminals bottom 	No
• combined terminal bettern	• combined terminal top	Yes
• combined terminal bottom	• combined terminal bottom	Yes
Product feature	Product feature	
• halogen-free Yes	• halogen-free	Yes
• sealable Yes	• sealable	Yes

• silicon-free	Yes	
Product extension / can be installed / supplementary	Yes	
devices		
Product function Product function		
	Terminal tightaning targue for Cu. 60/75°C; 2 FNm/24lh in	
• Note	Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in	
neutral conductor switching	No	
Short circuit		
Breaking capacity short-circuit current (Icn) / at AC /	14 kA	
acc. to UL 1077 and CSA C22.2 No.235		
Number		
Number of test cycles / for environmental testing /	6	
acc. to IEC 60068-2-30		
Connections Connectable conductor cross-section / finely		
stranded / with core end processing		
	1.5 mm²	
• minimum	25 mm²	
• maximum		
Position / of power supply cord	Any	
Mechanical Design		
Height	110 mm	
Width	18 mm	
Depth	70 mm	
Mounting position	any	
Installation depth	70 mm	
Number of width units	1	
Mounting type	on standard mounting rail	
Environmental conditions		
Degree of pollution	3	
Influence of the surrounding temperature	max. 95% humidity	
Vibration resistance	50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)	
Vibration resistance / acc. to IEC 60068-2-6	50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)	
Ambient temperature		
• minimum	-25 °C	
• maximum	55 °C	
during storage / minimum	-40 °C	
during storage / maximum	75 °C	
- during storage / maximum		
Certificates		
Equipment marking		
	F	

F

General Product Approval

Declaration of Conformity

Test Certificates









Miscellaneous

Special Test Certificate

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=5SJ4113-7HG41

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

https://support.industry.siemens.com/cs/ww/en/ps/5SJ4113-7HG41

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4113-7HG41

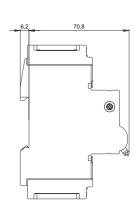
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications





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