SIEMENS

Data sheet

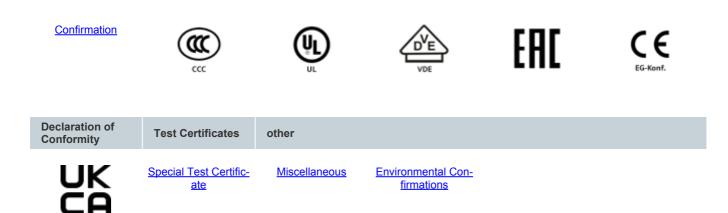
5SJ4102-7HG42



Circuit breaker 10kA, 1-pole, C, 2A according to UL 489-277V

Model				
product brand name S	SENTRON			
product designation M	Miniature circuit breakers			
design of the product M	/iniature circuit-breaker 5SJ4			
General technical data				
number of poles 1				
design of pole 11	P			
tripping characteristic class C	С			
	0 000			
0 0	Suitable for environment B (immunity to interference not applicable)			
reference code according to DIN 40719 extended F according to IEC 204-2 according to IEC 750	-			
overvoltage category 3				
degree of pollution 3	3			
Voltage				
	AC/DC			
insulation voltage (Ui) at AC rated value 44	40 V			
Supply voltage				
	100 V			
operating voltage				
maximum	277 V			
	50 V			
C22.2 No. 5-02 maximum	50 V			
• at DC 2-channel according to UL 489 and CSA 12 C22.2 No. 5-02 maximum	125 V			
supply voltage frequency rated value 50	50 Hz			
Protection class				
protection class IP IF	P20, with connected conductors, IP 40 in the handle range			
Switching capacity				
switching capacity current				
according to EN 60898 rated value	0 kA			
according to IEC 60947-2 rated value	5 kA			
Dissipation				
power loss [W] for rated value of the current at AC in hot operating state per pole	.8 W			
Current				
operational current				
• at 30 °C rated value 2	2 A			
• at 40 °C rated value 2	2 A			

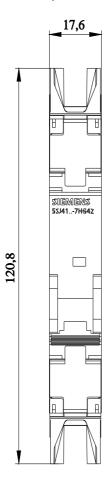
 a.t. 45 °C rated value 1.9 A a.t. 55 °C rated value 1.8 A a.t. 55 °C rated value 1.8 A a.t. 55 °C rated value 1.8 A a.t. 60 °C rated value 2.A Man checut Wechanical engineering / industry Product Acta by Product Acta Provide Product Acta Provide Prove Provide Provide Provide Provide Provide Provide Prove Pro				
 i af 5° C-rated value if A A ar 40 C rated value 2 A Main circuit type of voltage supp) at AC according to UL 499 and CSA C222 No. 5-02 valuability for operation Mechanical engineering / industry Froduct cleanis product central top product central top prod				
• at 60 °C rated value 1.8 A • at 60 °C rated value 2 A Main circuit 480/277 Sch C22 240, S-542 480/277 suitability for operation Mechanical angineering / industry Product domponent • • turnel terminals top No • turnel terminals top No • turnel terminals top No • combined terminal top Yes • combined terminal bottom Yes • combined terminal bottom Yes • neutral conductor switching No • neutral conductor switching No • neutral conductor switching Yes • seatable Yes • seatable Yes • seatable Yes • seatable Yes • product function Terminal tightening torque for Cu. 60/75°C; 3.5 Nm/31b.in Short circuit Terminal tightening torque for Cu. 60/75°C; 3.5 Nm/31b.in Short circuit Terminal tightening torque for Cu. 60/75°C; 3.5 Nm/31b.in Short circuit To Smrt connectable conductor cross-section finely stranded with core end processing To Smrt connectable conductor cross-section finely stranded with core end processing To minal tightening torque with screw-type terminals maximum in maximum To				
• at AC rated value 2 A Main circuit Yee of voltage supply at AC according to UL 489 and CSA C222 No. 5402 480/277 Subability for operation Mechanical engineering / industry Product component • product component • • turnel terminals top No • combined terminal botion No • combined terminal botion Yes • combined terminal botion Yes • nature conductor switching No product consponent Yes • halogen-free Yes • product consponent Yes • indigen-free Yes • product consponent Yes • mature conductor switching No product conscience in installable supplementary devices Yes * ordicer intercion Terminal lightening torque for Cu, 60/75°C; 3.5Nm/31b.in Short clocuit 10 kA according to UL 1077 and CSA C222 No.235 Connectable conductor cross-section finely stranded with core of processing ore of processing 0.75 mm² • maximum 25 mm² <				
Main circuit AC according to UL 489 and CSA C22 2 No. 5-02 suitability for operation Mechanical engineering / Industry Product component No • tunnel terminals bottom No • combined terminals bottom Yes • combined terminals bottom Yes • neutral conductor switching No product feature Yes • seatable Yes • seatable Yes • seatable Yes • product function note Terminal lightening torque for Cu, 60/75°C; 3.5Nm/311b.in Short circuit Terminal lightening torque for Cu, 60/75°C; 3.5Nm/311b.in Short circuit Terminal lightening torque for Cu, 60/75°C; 3.5Nm/311b.in Connectable conductor cross-section finely stranded with core end processing 0.75 mm² • maximum 25 mm² 35 Nm • maximum 35 Nm 26 mm² • maximum 70 mm number of modular widh units 1 18 mm				
type of voltage supply at AC according to UL 489 and CSA C22 K0. 6-02 480/277 suitability for operation Mechanical engineering / industry Product details No itumel terminals top No isolicon-free Yes isolicon-free Yes product function note Terminal tightening torque for Cu, 60/75°C; 3.5Nm/311b.in Short circuit Terminal tightening torque for Cu, 60/75°C; 3.5Nm/311b.in Dreaking capacity short-circuit current (fon) at AC according to U. 1077 and CSA C22 No 235 Connectable conductor cross-section finely stranded with core end processing e maximum 25 mm² 3.5 N m togethy ord Any Mechanical Design 121 mm height 12 mm width 18 mm depth 170 g Environmetal condular width uni		2 A		
CSA C22 2 No. 5-02 Mechanical engineering / industry Product component No • tunnel terminals top No • tunnel terminals bottom No • combined terminals bottom Yes • combined terminals bottom Yes • neutral conductor switching No product feature Yes • neutral conductor switching Yes • neutral conductor switching Yes product feature Yes • sealable Yes • sealable Yes Product function nole Terminal lightening torque for Cu, 60/75°C; 3.5Nm/31b.in Short Graut 10 kA connectable conductor cross-section finely stranded with core end processing 0.75 mm² • mainrum 0.75 mm² • mainrum 25 mm² tightening torque with screw-type terminals maximum 3.5 Nm position of power supply cord Any Mechanical Design 18 mm number of modular with units 1 fastering method on standard mounting rail mounting position of power supply cord any Vibration resistance 60 ms² al 25 to 150Hz and 60m/s² al 35Hz (4sec) vibration resistance according to LC 6006B-2-6 anhimut anibient temperature d				
Product definition Product component tunnel terminals top No tunnel terminals bottom combined terminal bottom recurrational bottom ves combined terminal bottom ves combined terminal bottom ves sealable ves sealable ves ves		480/277		
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	product component			
	 tunnel terminals top 	No		
 combined terminal bottom recuration ductor switching neatinat conductor switching No product feature islagen-free Yes sealable Yes sealable Yes recuration free Yes recuration free Yes Product function note Terminal tightening torque for Cu, 60775'C; 3.5Nm/31lb.in Shot circuit product function note Terminal tightening torque for Cu, 60775'C; 3.5Nm/31lb.in Shot circuit product function note Terminal tightening torque for Cu, 60775'C; 3.5Nm/31lb.in Shot circuit connectable conductor cross-section finely stranded with core end processing ininimum connectable conductor cross-section finely stranded with core end processing ininimum outing to prover supply cord Any Medantical Design height tals man tasting method on standard mounting rail mounting position for presistance vibration resistance according to EC 60068-2-6 ambient temperature during operation max. 55% humidity tastening method on standard mounting rail ambient temperature during operation max. 55% humidity arcording to EC 8008-2-6 ambient temperature during operation max. 55% humidity arcording to EC 81346-2 reference code eccording to EC 81346-2 F caccording to EC 81346-2 F caccording to EC 81346-2 F caccording to EC 81346-2 F 	 tunnel terminals bottom 	No		
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product feature Yes • sealable Yes • sealable Yes • moduce strains in installable supplementary devices Yes Product function Terminal lightening torque for Cu, 60/75°C; 3.5Nm/31lb.in Short circuit Terminal lightening torque for Cu, 60/75°C; 3.5Nm/31lb.in Short circuit Terminal lightening torque for Cu, 60/75°C; 3.5Nm/31lb.in Short circuit current (Icn) at AC according to UL 10/7 and CSA C22.2 No.235 Tormation Connectable conductor cross-section finely stranded with core end processing 0.75 mm² • enakimum 0.75 mm² bightening torque with screw-type terminals maximum 3.5 Nm position of power supply cord Any Mechanical Design 1 height 121 mm width 18 mm installation depth 70 mm number of modular width units 1 fastening method on standard mounting rail ambient temperature during operation any • Wibration resistance 50 m/s² at 25 to 150Hz • Wibration resistance according to IEC 60068-2-6 41 mm at 5 to 25 Hz; 50 m/s² at 25 to 150 Hz ambient temperature during operation	 combined terminal bottom 	Yes		
• halogen-free Yes • estatable Yes • estatable Yes • product function Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in Short circuit Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in Short circuit Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in Short circuit Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in Short circuit Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in Short circuit Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in Short circuit Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in Short circuit Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in Connectable conductor cross-section finely stranded with core end processing In KA core end processing • Ininimu • ininimum 0.75 mm² • maximum 3.5 N m position of power supply cord Any Mechanical Design To mm number of modular with units 1 1 fastening method on standard mounting rail mounting position any any • Provionmental conditions for Mrs² at 25 to 15	 neutral conductor switching 	No		
	product feature			
• silicon-free Yes Product extension installable supplementary devices Yes Product function Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in Short circuit Image: Short-circuit current ((en) at AC according to UL 1077 and GSA C222 No.235 Connections Image: Short-circuit current ((en) at AC according to UL 1077 and GSA C222 No.235 Connections Image: Short-circuit current ((en) at AC according to UL 1077 and GSA C222 No.235 Connections Image: Short-circuit current ((en) at AC according to UL 1077 and GSA C222 No.235 Connections Image: Short-circuit current ((en) at AC according to UL 1077 and GSA C222 No.235 Connections Image: Short-circuit current ((en) at AC according to UL 1077 and GSA C222 No.235 Connections Image: Short-circuit current ((en) at AC according to UL 1077 and GSA C222 No.235 Connections Image: Short-circuit current ((en) at AC according to UL 1077 and GSA C222 No.235 Connections Image: Short-circuit current ((en) at AC according to UL 1077 and GSA C222 No.235 Methanical Design Image: Short-circuit current ((en) at AC according to UL 1077 and GSA C222 No.235 Neght 121 nm Image: Short-circuit current ((en) at AC according to UL 1077 and GSA C22 C according to IEC 60068-2-6 Image: Short-circuit current ((en) at C2 C C according to IEC 60068-2-6 Image: Short-circuit current ((e	 halogen-free 	Yes		
product extension installable supplementary devices Yes Product function Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in Short circuit Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in Short circuit Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in Short circuit Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in Short circuit Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in Connectable conductor cross-section finely stranded with core end processing Io kA cornectable conductor cross-section finely stranded with core end processing O.75 mm² enaximum 0.75 mm² Sont m² ightening torque with screw-type terminals maximum 3.5 N·m Any Mechanical Design Ia mm Mark height 18 mm Or mm Or mm installation depth 70 mm Or mm Or mm installation depth 70 mm Installation depth 70 mm number of modular width units 1 1 Issensing method Installation depth 70 mm installation resistance 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) 1	• sealable	Yes		
Product function product function note Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in Short circuit Idea in the integration of the				
product function note Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in Short circuit breaking capacity short-circuit current (Icn) at AC according to UL 1077 and CSA C22.2 No.235 Connectable conductor cross-section finely stranded with core end processing 0.75 mm² connectable conductor cross-section finely stranded with core end processing 0.75 mm² e maximum 0.75 mm² tightening torque with screw-type terminals maximum 3.5 N m position of power supply cord Any Mechanical Design 121 mm width 18 mm depth 70 mm number of modular width units 1 fastening method on standard mounting rail mounting position any net weight 179 g Environmental conditions 50 m/s² at 25 to 150 Hz and 60m/s² at 35Hz (4sec) vibration resistance 50 m/s² at 25 to 150 Hz ambient temperature during operation max. 95% humidity minimum -25 °C maximum 75 °C Corrent code 6 e maximum 75 °C Cordificatas F	product extension installable supplementary devices	Yes		
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• maximum 25 mm² tightening torque with screw-type terminals maximum 3.5 N·m position of power supply cord Any Mechanical Design	core end processing			
tightening torque with screw-type terminals maximum position of power supply cord Any Mechanical Design height width depth installation depth number of modular width units installation depth number of modular width units fastening method mounting position number of modular width units fastening method mounting position net weight Environmental conditions Vibration resistance vibration resistance according to IEC 60068-2-6 ambient temperature during operation • minimum • minimum • minimum • minimum • minimum • minimum • minimum • minimum • for C • maximum • minimum • for C • maximum • minimum • for C • according to EN 61346-2 • according to IEC 81346-2 • f • General Product Approval • Declaration of	• minimum			
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maximum 75 °C Certificates reference code according to EN 61346-2 F according to IEC 81346-2 F General Product Approval Declaration of		max. 95% humidity		
Certificates reference code • according to EN 61346-2 • according to IEC 81346-2 F General Product Approval	• minimum			
reference code	● maximum	75 °C		
according to EN 61346-2 F according to IEC 81346-2 F General Product Approval Declaration of	Certificates			
according to IEC 81346-2 F General Product Approval Declaration of				
General Product Approval Declaration of	-			
General Product Approval	according to IEC 81346-2	F		
	General Product Approval			

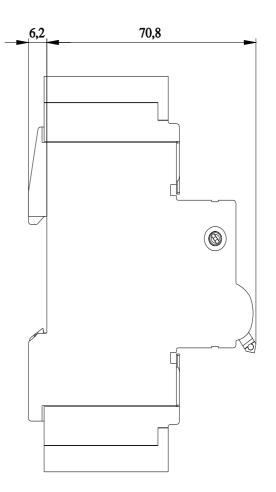


Further information

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=5SJ4102-7HG42 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/5SJ4102-7HG42 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4102-7HG42 CAx-Online-Generator http://www.siemens.com/cax

http://www.siemens.com/specifications





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