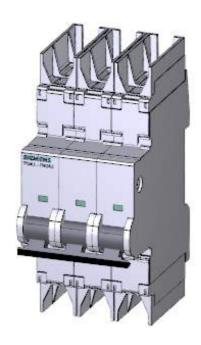
SIEMENS

Data sheet 5SJ4310-7HG42

> Circuit breaker 10kA, 3-pole, C, 10 A according to UL 489-480Y/277V



Model		
Product brand name	SENTRON	
Product designation	Miniature circuit breakers	
Design of the product	Miniature circuit-breaker 5SJ4	
General technical data		
Number of poles	3	
Number of poles / Note	3P	
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	
Reference code / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750	F	
Overvoltage category	3	
Voltage		

AC/DC

440 V

Type of voltage

Insulation voltage / at AC / rated value

Supply voltage	400.14
Supply voltage / at AC / rated value	400 V
Supply voltage frequency / rated value	50 Hz
Protection class	
Protection class IP	IP20, with connected conductors, IP 40 in the handle range
Switching capacity	
Switching capacity current	
• acc. to EN 60898 / 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	1.4 W
/ in hot operating state / per pole	
Electricity	
Tripping residual / rated value / derated current / at	10 A
40 Cel	
Current / at AC / rated value	10 A
Main circuit	
Type of voltage supply / at AC / acc. to UL 489 and CSA C22.2 No. 5-02	480/277
Operating voltage	
• minimum	24 V
• at AC / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum	277 V
 at DC / 1-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum 	60 V
 at DC / 2-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum 	125 V
at DC / rated value / maximum	60 V
Suitability for operation	Mechanical engineering / 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
Product feature	
• halogen-free	Yes
• sealable	Yes
• silicon-free	Yes

Product function Product function Product function Note neutral conductor switching Product function No Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in No Short circuit Breaking capacity short-circuit current (Icn) / at AC / acc. to UL 1077 and CSA C22.2 No.235 Number Number of test cycles / for environmental testing / acc. to IEC 60068-2-30 Connections Connectable conductor cross-section / finely stranded / with core end processing niminum maximum 1.5 mm² maximum 25 mm² Position / of power supply cord Any Mechanical Design Height 121 mm Width 54 mm Depth 76 mm Mounting position Installation depth Number of width units 3 Mounting type on standard mounting rail Net weight		
Product function Note Note Iterminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in No Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in No No Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in No No Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in No No No Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in No No No Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in No No Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in No No Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in No No Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in No No Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in No No Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in No Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in No Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in Terminal tightening torque for Cu, 60/75°C	Product extension / can be installed / supplementary devices	Yes
Note • neutral conductor switching Short circuit Breaking capacity short-circuit current (Icn) / at AC / acc. to UL 1077 and CSA C22.2 No.235 Number Number of test cycles / for environmental testing / acc. to IEC 60068-2-30 Connectable conductor cross-section / finely stranded / with core end processing • minimum • maximum 1.5 mm² 25 mm² Position / of power supply cord Midth Depth 76 mm Mounting position Installation depth Number of width units Mounting type Net weight Despread of pollution No No Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in No No No No No No No No No N	Product function	
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Breaking capacity short-circuit current (Icn) / at AC / acc. to UL 1077 and CSA C22.2 No.235 Number Number of test cycles / for environmental testing / acc. to IEC 60068-2-30 Connectable conductor cross-section / finely stranded / with core end processing • minimum • maximum Position / of power supply cord Mounting position Number of width units 3 Mounting type Net weight Any Mounting type On standard mounting rail Net weight Position / So mus' at 25 to 150Hz and 60m/s² at 35Hz (4sec) Vibration resistance / acc. to IEC 60068-2-6 Ambient temperature • minimum • during storage / maximum • during storage / minimum • during storage / minimum • during storage / minimum • during storage / maximum • during storage / minimum • during storage / minimum • during storage / maximum • during storage / maximum • during storage / minimum • during storage / maximum • during storage / maximum • during storage / minimum • during storage / minimum • during storage / maximum • during storage / maximum • during storage / minimum • during storage / maximum • during storage / maximum • during storage / minimum • during storage / minimum • during storage / maximum • during storage / maximum • during storage / maximum • during storage / minimum • during storage / maximum • during storage / minimum • during storage / minimum • during storage / maximum • during storage / maximum	• Note	Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in
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Depth 76 mm Mounting position any Installation depth 70 mm Number of width units 3 Mounting type on standard mounting rail Net weight 490 g Environmental conditions Degree of pollution 3 Influence of the surrounding temperature max. 95% humidity Vibration resistance / acc. to IEC 60068-2-6 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 • minimum -25 °C • maximum • during storage / minimum • during storage / maximum 75 °C Certificates Reference code	Height	121 mm
Mounting position Installation depth 70 mm Number of width units 3 Mounting type on standard mounting rail Net weight 490 g 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 during storage / minimum during storage / maximum 75 °C Certificates Reference code	Width	54 mm
Installation depth Number of width units Mounting type on standard mounting rail Net weight 490 g Environmental conditions Degree of pollution 3 Influence of the surrounding temperature Vibration resistance 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) Vibration resistance / acc. to IEC 60068-2-6 Ambient temperature • minimum • maximum • during storage / minimum • during storage / maximum 75 °C Certificates Reference code	Depth	76 mm
Number of width units Mounting type on standard mounting rail 490 g Environmental conditions Degree of pollution Influence of the surrounding temperature Vibration resistance Vibration resistance / acc. to IEC 60068-2-6 Ambient temperature • minimum • during storage / minimum • during storage / maximum Teleference code on standard mounting rail and some standard mounting rail and standard	Mounting position	any
Mounting type Net weight 490 g Environmental conditions Degree of pollution Influence of the surrounding temperature Vibration resistance Vibration resistance / acc. to IEC 60068-2-6 Ambient temperature • minimum • maximum • during storage / minimum • during storage / maximum Teleference code on standard mounting rail 490 g max. 95 % max. 95% humidity max. 95% humidity 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) - 25 °C - 40 °C - 50 °C - 50 °C - 60 during storage / maximum - 40 °C - 75 °C	Installation depth	70 mm
Net weight Ago g Environmental conditions Degree of pollution 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 Ambient temperature • minimum • minimum -25 °C • during storage / minimum -40 °C • during storage / maximum 75 °C Certificates Reference code	Number of width units	3
Degree of pollution Influence of the surrounding temperature Vibration resistance Vibration resistance / acc. to IEC 60068-2-6 Ambient temperature • minimum • maximum • during storage / maximum To C Certificates Page of pollution 3 max. 95% humidity max. 95% humidity 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) 60 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) 75 °C	Mounting type	on standard mounting rail
Degree of pollution 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 during storage / minimum during storage / maximum 75 °C Certificates Reference code	Net weight	490 g
Influence of the surrounding temperature wax. 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 max. 95% humidity 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) -25 °C maximum 55 °C -40 °C -40 °C 75 °C Certificates Reference code	Environmental conditions	
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 75 °C Certificates Reference code	Degree of pollution	3
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 • during storage / minimum -40 °C • during storage / maximum 75 °C Certificates Reference code	Influence of the surrounding temperature	max. 95% humidity
Ambient temperature • minimum • maximum • during storage / minimum • during storage / maximum Certificates Reference code	Vibration resistance	50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)
 minimum -25 °C maximum 55 °C during storage / minimum -40 °C during storage / maximum 75 °C Certificates Reference code	Vibration resistance / acc. to IEC 60068-2-6	50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)
 maximum during storage / minimum during storage / maximum Certificates Reference code 55 °C 75 °C	Ambient temperature	
during storage / minimum during storage / maximum 75 °C Certificates Reference code	• minimum	-25 °C
• during storage / maximum 75 °C Certificates Reference code	• maximum	55 °C
Certificates Reference code	during storage / minimum	-40 °C
Reference code	 during storage / maximum 	75 °C
Reference code	Certificates	
• acc. to DIN EN 61346-2		
	• acc. to DIN EN 61346-2	F

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General Product Approval

Declaration of Conformity

Test Certificates









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=5SJ4310-7HG42

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

https://support.industry.siemens.com/cs/ww/en/ps/5SJ4310-7HG42

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4310-7HG42

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications

