SIEMENS

Data sheet 5SJ4130-6HG40



Miniature circuit breaker 240 V 14kA, 1-pole, B, 30 A, D=70 mm according to UL 489, equal polarity

product brand name product designation design of the product General technical data number of poles mechanical service life (switching cycles) / typical installation environment regarding EMC reference code / according to DIN 40719 extended according to IEC 204-2 / according to IDN 40719 extended according to IEC 204-2 / according to IDN 40719 extended according to Foreign to IDN 40719 extended according to IDN 40719 extended according to Foreign to IDN 40719 extended according to Voltage / of the operating voltage insulation voltage (UI) / at AC / rated value 440 V Supply voltage / at AC / according to UL 489 and CSA C22.2 No. 5- 02 / maximum • at DC / rated value / maximum • according to IDN 60898 / rated value • according to IDN 60898	Model	
design of the product General technical data number of poles tripping characteristic class mechanical service life (switching cycles) / typical installation environment regarding EMC reference code / according to DIN 40719 extended according to IEC 204-2 / according to IEC 750 overvoltage category degree of pollution Voltage type of voltage / of the operating voltage insulation voltage (UI) / at AC / rated value operating voltage supply voltage / at AC / rated value • at CA / according to UL 489 and CSA C22.2 No. 5- 02 / maximum • at DC / rated value / maximum • at DC / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum • at DC / single channel / according to UL 489 and CSA C20.2 No. 5-02 / maximum • at DC / single channel / according to UL 489 and CSA C20.2 No. 5-02 / maximum • at DC / single channel / according to UL 489 and CSA C20.2 No. 5-02 / maximum • at DC / single channel / according to UL 489 and CSA C20.2 No. 5-02 / maximum • at DC / single channel / according to UL 489 and CSA C20.2 No. 5-02 / maximum • at DC / single channel / according to UL 489 and CSA C20.2 No. 5-02 / maximum • at DC / single channel / according to UL 489 and CSA C20.2 No. 5-02 / maximum • at DC / single channel / according to UL 489 and CSA C20.2 No. 5-02 / maximum • at DC / single channel / according to UL 489 and CSA C20.2 No. 5-02 / maximum • at DC / single channel / according to UL 489 and CSA C20.2 No. 5-02 / maximum • at DC / single channel / according to UL 489 and CSA C20.2 No. 5-02 / maximum • at DC / single channel / according to UL 489 and CSA C20.2 No. 5-02 / maximum • at 30 CC / rated value • at 30 °C / rated value • at 30 °C / rated value • at 30 °C / rated value • at 40 °C / rated value • at 40 °C / rated value	product brand name	SENTRON
Ceneral technical data number of poles	product designation	Miniature circuit breakers
Inumber of poles Itripping characteristic class Bemechanical service life (switching cycles) / typical Installation environment regarding EMC Suitable for environment B (immunity to interference not applicable) Installation environment regarding EMC Suitable for environment B (immunity to interference not applicable) Installation environment regarding EMC Suitable for environment B (immunity to interference not applicable) Installation environment R (immu	design of the product	Miniature circuit-breaker 5SJ4
tripping characteristic class mechanical service life (switching cycles) / typical installation environment regarding EMC reference code / according to DIN 40719 extended according to IEC 204-2 / according to EC 750 overvoltage category degree of pollution 3 Voltage type of voltage / of the operating voltage insulation voltage (Ui) / at AC / rated value Supply voltage supply voltage / at AC / rated value 440 V Supply voltage • at AC / according to UL 489 and CSA C22.2 No. 5- 02 / maximum • at DC / single 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 Switching capacity switching capacity switching capacity switching capacity switching capacity switching capacity current • according to EC 60947-2 / rated value 10 kA 15 kA Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current • at 30 °C / rated value • at 40 °C / rated value 30 A	General technical data	
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according to IEC 204-2 / according to IEC 750 overvoltage category 3 degree of pollution 3 Voltage type of voltage / of the operating voltage AC/DC insulation voltage (Ui) / at AC / rated value 440 V Supply voltage supply voltage / at AC / rated value 400 V operating voltage • at AC / according to UL 489 and CSA C22.2 No. 5- 02 / maximum • at DC / rated value / maximum 60 V • at DC / single 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 Switching capacity switching capacity current • according 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 Current • at 30 °C / rated value 30 A • at 40 °C / rated value 30 A	installation environment regarding EMC	Suitable for environment B (immunity to interference not applicable)
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type of voltage / of the operating voltage	overvoltage category	3
type of voltage / of the operating voltage insulation voltage (Ui) / at AC / rated value 440 V Supply voltage supply voltage / at AC / rated value 400 V operating voltage 400 V operating voltage frequely / maximum 60 V operating 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 operation 400 V oper	degree of pollution	3
insulation voltage (UI) / at AC / rated value Supply voltage supply voltage / at AC / 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 / single 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 Switching capacity switching capacity current • according to EN 60898 / rated value 10 kA • according to EC 60947-2 / rated value 15 kA Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current • at 30 °C / rated value • at 40 °C / rated value • at 40 °C / rated value 30 A	Voltage	
supply voltage / at AC / rated value 400 V operating voltage • at AC / according to UL 489 and CSA C22.2 No. 5- 02 / maximum • at DC / rated value / maximum • at DC / single 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 IP20, with connected conductors, IP 40 in the handle range IP3, witching capacity current according to EN 60898 / rated value 10 kA according to EN 60898 / rated value 15 kA IP3, with connected conductors, IP 40 in the handle range 15 kA IP3, witching capacity current 15 kA IP3, witching capacity current 16 kA 17 kA 18 kA 19 kA 1	type of voltage / of the operating voltage	AC/DC
supply voltage / at AC / 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 / single 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 Switching capacity switching capacity current • according to EN 60898 / rated value • according to EC 60947-2 / rated value Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current • at 30 °C / rated value • at 40 °C / rated value • at 40 °C / rated value 30 A • at 40 °C / rated value	insulation voltage (Ui) / at AC / rated value	440 V
operating voltage • at AC / according to UL 489 and CSA C22.2 No. 5- 02 / maximum • at DC / rated value / maximum • at DC / single 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 Switching capacity switching capacity current • according to EN 60898 / rated value • according to EN 60898 / rated value • according to IEC 60947-2 / 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 operating state / per pole Current operational current • at 30 °C / rated value • at 40 °C / rated value 30 A • at 40 °C / rated value 30 A	Supply voltage	
at AC / according to UL 489 and CSA C22.2 No. 5-02 / maximum at DC / rated value / maximum at DC / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum supply voltage frequency / rated value protection class protection class IP Switching capacity switching capacity current according to EN 60898 / rated value power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current at 30 °C / rated value at 40 °C / rated value 30 A at 40 °C / rated value 30 A	supply voltage / at AC / rated value	400 V
02 / maximum • at DC / rated value / maximum • at DC / single 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 Switching capacity switching capacity current • according to EN 60898 / rated value • according to IEC 60947-2 / rated value Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current • at 30 °C / rated value • at 40 °C / rated value 30 A • at 40 °C / rated value 30 A	operating voltage	
at DC / single 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 Switching capacity switching capacity current according to EN 60898 / rated value according to IEC 60947-2 / rated value power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current at 30 °C / rated value at 40 °C / rated value 30 A at 40 °C / rated value 30 A	•	120 V
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 Switching capacity switching capacity current • according to EN 60898 / rated value • according to IEC 60947-2 / rated value Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current • at 30 °C / rated value • at 40 °C / rated value 30 A	at DC / rated value / maximum	60 V
Protection class IP IP20, with connected conductors, IP 40 in the handle range Switching 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 operating state / per pole Current operational current • at 30 °C / rated value 30 A • at 40 °C / rated value 30 A		60 V
protection class IP Switching capacity switching capacity current • according to EN 60898 / rated value • according to IEC 60947-2 / rated value power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current • at 30 °C / rated value • at 40 °C / rated value IP20, with connected conductors, IP 40 in the handle range IP20	supply voltage frequency / rated value	50 Hz
Switching capacity switching capacity current • according to EN 60898 / rated value • according to IEC 60947-2 / rated value Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current • at 30 °C / rated value • at 40 °C / rated value 30 A	Protection class	
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according to EN 60898 / rated value according to IEC 60947-2 / rated value Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current at 30 °C / rated value at 40 °C / rated value 30 A	Switching capacity	
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Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current • at 30 °C / rated value • at 40 °C / rated value 30 A	 according to EN 60898 / rated value 	10 kA
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current • at 30 °C / rated value • at 40 °C / rated value 30 A	 according to IEC 60947-2 / rated value 	15 kA
hot operating state / per pole Current operational current • at 30 °C / rated value • at 40 °C / rated value 30 A	Dissipation	
operational current • at 30 °C / rated value • at 40 °C / rated value 30 A 30 A		3.4 W
 at 30 °C / rated value at 40 °C / rated value 30 A 30 A 	Current	
• at 40 °C / rated value 30 A	operational current	
	• at 30 °C / rated value	30 A
• at 45 °C / rated value 29.1 A	• at 40 °C / rated value	30 A
	• at 45 °C / rated value	29.1 A

 at 50 °C / rated value 	28.2 A
at 55 °C / rated value	27.2 A
at 60 °C / rated value	26.4 A
at AC / rated value	30 A
Main circuit	
type of voltage supply / at AC / according to UL 489 and CSA C22.2 No. 5-02	240/120
suitability for operation	Mechanical engineering / industry
Product details	
product component / neutral conductor switching	No
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 extension / installable / supplementary devices	Yes
Product function	
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	14 kA
Connections	
connectable conductor cross-section / finely stranded / with core end processing	
• minimum	0.75 mm²
maximum	25 mm²
tightening torque / with screw-type terminals / maximum	3.5 N·m
position / of power supply cord	Any
Mechanical Design	
height	90 mm
width	18 mm
depth	70 mm
installation depth	70 mm
number of modular width units	1
fastening method	on standard mounting rail
mounting position	any
net weight	166 g
Environmental conditions	
vibration resistance	50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)
ambient temperature / during operation	
• minimum	55 °C
• maximum	-25 °C
ambient temperature / during storage	
• minimum	-40 °C
• maximum	75 °C
Certificates	
reference code	
according to EN 61346-2	F
according to IEC 81346-2	F
General Product Approval	Declaration of Conformity



Confirmation









Test Certificates

<u>Miscellaneous</u> <u>Special Test Certificate</u>

Miscellaneous

other

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=5SJ4130-6HG40

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

https://support.industry.siemens.com/cs/ww/en/ps/5SJ4130-6HG40

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4130-6HG40

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications



