SIEMENS

Data sheet 5SJ4113-6HG40



Miniature circuit breaker 240 V 14kA, 1-pole, B, 13 A, D=70 mm according to UL 489, equal polarity

product designation design of the product Miniature circuit breakers design of the product Miniature circuit breaker SSJ4 General technical data number of poles 1 tripping characteristic class B 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 3 degree of pollution 3 Voltage Type of voltage / of the operating voltage insulation voltage (II) / at AC / rated value 440 V Supply voltage supply voltage at AC / rated value 400 V operating voltage at AC / rated value 400 V operating voltage at AC / rated value 400 V operating voltage at AC / rated value 400 V operating voltage at AC / rated value 50 Hz at AC / According to UL 489 and CSA C22.2 No. 5-02 / maximum 60 V at DC / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum 60 V supply voltage frequency / rated value 50 Hz Protection class P protection class IP Protection class IP Switching capacity current according to EN 60898 / rated value 10 kA according to EN 60898 / rated value 15 kA Dissipation power loss [W] / for rated value of the current / at AC / in hot operating slate / per pole Current operational current 4 at 45 °C / rated value 13 A 4 at 45 °C / rated value 4 at 45 °C / rated value 13 A 4 at 45 °C / rated value 4 at 45 °C / rated value 13 A 4 at 45 °C / rated value 5 12.6 A	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 3 degree of poliution Voltage type of voltage / of the operating voltage insulation voltage (UI) / at AC / rated value operating voltage supply voltage / at AC / rated value • 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 / rated value / 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 switching capacity or rated value of the current / at AC / in hot operating state / per pole Current • at 30 °C / rated value • at 40 °C / rated value	product brand name	SENTRON	
Ceneral technical data number of poles 1	product designation	Miniature circuit breakers	
tripping characteristic class B 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 • 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 IP Switching capacity switching capacity switching capacity switching capacity switching capacity operating stale / per pole Current • at 30 °C / rated value • at 40 °C / rated value • at 40 °C / rated value • at 30 °C / rated value • at 40 °C / rated value	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 IEC 750 overvoltage category 3 degree of pollution 3 Voltage type of voltage / of the operating voltage insulation voltage (UI) / at AC / rated value 440 V Supply voltage supply voltage / at AC / rated value • 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 / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum supply voltage frequency / rated value Frotection class IP Switching capacity switching capacity current • according to IEC 60947-2 / rated value • at 30 °C / rated value of the current / at AC / in hot operating state / per pole Current • at 30 °C / rated value • at 40 °C / rated value • at 30 °C / rated value • at 40 °C / rated value • at 40 °C / rated value • at 40 °C / rated value • 13 A	General technical data		
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 3 Voltage type of voltage / of the operating voltage insulation voltage / of the operating voltage supply voltage supply 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 supply voltage frequency / rated value • at DC / single channel / according to UL 489 and GSA C22.2 No. 5-02 / maximum supply voltage frequency / rated value • at DC / single channel / according to UL 489 and GSA C22.2 No. 5-02 / maximum supply voltage frequency / rated value • at DC / single channel / according to UL 489 and GSA C22.2 No. 5-02 / maximum supply voltage frequency / rated value • according to EN 60898 / rated value • according to EN 60898 / rated value • according to EN 60898 / rated value • according to EN 60898 / rated value 10 kA • according to EC 60947-2 / rated value 11 y W • according to EN 60898 / rated value • according to EN 60898 / rated value • according to EN 60898 / rated value 10 kA • according to EN 60898 / rated value • accord	number of poles	1	
installation environment regarding EMC reference code / according to DIN 40719 extended according to IDN 40719 extended according to IDN 40719 extended according to IEC 204-2 / according to IEC 750 overvoltage category 3 degree of pollution 3 Voltage type of voltage / of the operating voltage insulation voltage (Ui) / at AC / rated value supply voltage supply voltage supply voltage / at AC / rated value 400 V supply voltage / at AC / rated value • 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** **protec	tripping characteristic class	В	
reference code / according to DIN 40719 extended according to IEC 204-2 / according to IEC 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 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 / rated value / 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 current according to IEC 60947-2 / rated value 10 kA according to IEC 60947-2 / rated value 11.9 W 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 13 A at 40 °C / rated value 13 A	mechanical service life (switching cycles) / typical	10 000	
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 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 13 A • at 40 °C / rated value 13 A	installation environment regarding EMC	Suitable for environment B (immunity to interference not applicable)	
degree of pollution Voltage type of voltage / of the operating voltage insulation voltage (Ui) / at AC / rated value Supply voltage supply voltage 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 Protection class protection class IP IP20, with connected conductors, IP 40 in the handle range Switching capacity current • according to EN 60898 / rated value 10 kA • according to EN 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 13 A		F	
type of voltage / of the operating voltage type of voltage / of the operating voltage insulation voltage (Ui) / at AC / rated value 440 V Supply voltage supply voltage / at AC / rated value operating voltage at AC / rated value operating voltage at AC / rated value operating voltage at AC / according to UL 489 and CSA C22.2 No. 5- 02 / maximum output at DC / rated value / maximum output at DC / rated value / maximum supply voltage frequency / rated value Frotection class P	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 • 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 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 13 A • at 40 °C / rated value 13 A	degree of pollution	3	
insulation voltage (Ui) / at AC / rated value Supply voltage 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 50 Hz Protection class protection class IP Switching capacity switching capacity switching capacity current according to EN 60898 / rated value 10 kA according to EC 60947-2 / rated value 11 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 13 A at 40 °C / rated value 13 A	Voltage		
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 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 13 A • at 40 °C / rated value 13 A	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 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 EC 60947-2 / rated value ID 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 13 A • at 40 °C / rated value 13 A	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 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 13 A • at 40 °C / rated value 13 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 13 A at 40 °C / rated value 13 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 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 13 A • at 40 °C / rated value 13 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 13 A at 40 °C / rated value 13 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 13 A • at 40 °C / rated value 13 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 • 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 13 A 13 A		60 V	
protection class IP 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 • at 30 °C / rated value 10 kA 15 kA 1.9 W 1.9 W	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 13 A • at 40 °C / rated value	Protection class		
switching capacity current • 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 13 A	protection class IP	IP20, with connected conductors, IP 40 in the handle range	
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 13 A at 40 °C / rated value 13 A	Switching capacity		
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 13 A 15 kA 1.9 W 1.9 W 1.9 W	switching capacity current		
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 13 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 13 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 13 A	Dissipation		
operational current • at 30 °C / rated value • at 40 °C / rated value 13 A 13 A		1.9 W	
 at 30 °C / rated value at 40 °C / rated value 13 A 13 A 	Current		
• at 40 °C / rated value 13 A	operational current		
	• at 30 °C / rated value	13 A	
• at 45 °C / rated value 12.6 A	 at 40 °C / rated value 	13 A	
	• at 45 °C / rated value	12.6 A	

 at 50 °C / rated value 	12.2 A	
 at 55 °C / rated value 	11.8 A	
 at 60 °C / rated value 	11.4 A	
at AC / rated value	13 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 mm ²	
• 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	163 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









Declaration of Conformity

Test Certificates

other



Miscellaneous

Special Test Certificate

Miscellaneous

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=5SJ4113-6HG40

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

https://support.industry.siemens.com/cs/ww/en/ps/5SJ4113-6HG40

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4113-6HG40

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications



