SIEMENS

Data sheet 5SJ4140-8HG41



Miniature circuit breaker 240 V 10kA, 1-pole, D, 40A, D=70 mm according to UL 489 $\,$

product brand name product designation design of the product designation design of the product Miniature circuit-breaker SSJ4 General technical data number of poles design of pole tripping characteristic class mechanical service life (operating cycles) typical installation environment regarding EMC reference code according to IDN 40719 extended according to IEC 2042 according to IEC 750 overvoltage category degree of pollution 3 voltage (UI) at AC rated value Supply voltage insulation voltage (UI) at AC rated value 440 V Supply voltage supply voltage at AC rated value 400 V at DC rated value 400 V 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 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 C22.2 No. 5-02 maximum at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum at DC 3-02 maximum at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum at DC 3-02 maximum at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum at DC 3-02 maximum at DC 3-04 maximum at DC 3-05 maximum at DC 3-05 maximum at DC 3-05 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 current according to IEC 60947-2 rated value 10 kA according to IEC 60947-2 rated value 10 kA according to IEC 60947-2 rated value 4.5 W operating state per pole Current operational current	Model	
design of the product General technical data number of poles design of pole tripping characteristic class mechanical service life (operating 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 insulation voltage (Ui) 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 at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum supply voltage frequency rated value b at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum b at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum b at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum b at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum b at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum b at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum b at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum b at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum b at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum b at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum b at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum b at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum b at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum b at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum b at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum b at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum b at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum b at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum b at DC 3-channel according to UL 489 and C	product brand name	SENTRON
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number of poles design of pole tripping characteristic class mechanical service life (operating 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 installation environment R9 (immunity to interference not applicable) reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750 overvoltage category 3 3 Voltage installation environment B (immunity to interference not applicable) reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750 overvoltage category 3 Voltage installation environment B (immunity to interference not applicable) F according to IEC 204-2 according to IEC 750 3 3 Voltage installation environment B (immunity to interference not applicable) F according to IEC 204-2 according to IEC 2750 3 3 Voltage installation environment B (immunity to interference not applicable) F according to EC 204-2 according to IEC 2750 3 3 440 V 440	design of the product	Miniature circuit-breaker 5SJ4
design of pole tripping characteristic class mechanical service life (operating 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** insulation voltage (UI) at AC rated value at AC rated value at AC rated value at AC rated value at AC rated value at AC rated value at AC rated value be at AC rated value at AC rated value at AC rated value at AC rated value be at AC rated value at CD rated value at CD rated value at CD rated value anamum 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 at DC 22.2 No. 5-02 maximum at DC 22.2 No. 5-02 maximum at DC 22.2 No. 5-02 maximum at DC channel according to UL 489 and CSA C22.2 No. 5-02 maximum be at DC channel according to UL 489 and CSA C22.2 No. 5-02 maximum be at DC channel according to UL 489 and CSA C22.2 No. 5-02 maximum be at DC channel according to UL 489 and CSA C32.2 No. 5-02 maximum be at DC channel according to UL 489 and CSA C32.2 No. 5-02 maximum be at DC rated value be according to UL 489 and CSA C32.2 No. 5-02 maximum be at DC rated value be according to UL 489 and CSA C32.2 No. 5-02 maximum be at DC rated value be according to UL 489 and CSA C32.3 No. 5-02 maximum be at DC rated value be according to UL 489 and CSA C32.3 No. 5-02 maximum be at DC rated value be according to UL 489 and CSA C32.3 No. 5-02 maximum be at DC rated value be according to UL 489 and CSA C32.3 No. 5-02 maximum be at DC rated value be according to UL 489 and CSA C32.4 No. 5-02 maximum be at DC rated value be according to UL 489 and CSA C32.5 No. 5-02 maximum be at DC rated value be according to UL 489 and CSA C32.5 No. 5-02 maximum be at DC rated value be according to UL 489 and CSA C32.5 No. 5-02 maximum be at DC rated value be at DC rated value be at AC ac	General technical data	
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according to IEC 204-2 according to IEC 750 overvoltage category 3 degree of pollution 3 Voltage insulation voltage (Ui) at AC rated value 440 V Supply voltage supply voltage supply voltage ***at AC rated value 60 V **at DC rated value 60 V **value range of the supply voltage frequency operating voltage ***at AC according to UL 489 and CSA C22.2 No. 5-02 maximum ***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 ***at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum ***at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum ***at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum ***supply voltage frequency rated value 50 Hz ***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 EN 60898 rated value 15 kA ***Dissipation Dower loss [W] for rated value of the current at AC in hot operating state per pole **Current**	installation environment regarding EMC	Suitable for environment B (immunity to interference not applicable)
degree of pollution Voltage insulation voltage (Ui) at AC rated value 440 V Supply voltage supply voltage • at AC rated value • at DC rated value • at DC 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 • at DC 2-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 15 kA Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Current		F
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insulation voltage (Ui) at AC rated value 440 V Supply voltage supply voltage • at AC rated value 400 V • at DC rated value 50/60 Hz 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 • at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 9.00 maximum • at DC 2-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 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	degree of pollution	3
supply voltage • at AC rated value • at DC rated value • at DC 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 • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum supply voltage frequency rated value Protection class protection class IP Protection class IP 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 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	Voltage	
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at AC rated value at DC rated value at DC rated value value range of the supply voltage frequency 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 at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum supply voltage frequency rated value Protection class protection class protection class IP IP20, with connected conductors, IP 40 in the handle range Switching capacity switching capacity switching capacity current according to IEC 60947-2 rated value 10 kA 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	Supply voltage	
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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 • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-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		60 V
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 at DC 2-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 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	value range of the supply voltage frequency	50/60 Hz
maximum • at DC rated value maximum • at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-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 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		
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C22.2 No. 5-02 maximum • at DC 2-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	 at DC rated value maximum 	60 V
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		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 Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Current	8	125 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	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 15 kA Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Current	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	protection class IP	IP20, with connected conductors, IP 40 in the handle range
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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 15 kA 4.5 W	switching capacity current	
Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Current 4.5 W	 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 4.5 W	 according to IEC 60947-2 rated value 	15 kA
operating state per pole Current	Dissipation	
		4.5 W
operational current	Current	
	operational current	

 at 30 °C rated value 	40 A
 at 40 °C rated value 	40 A
 at 45 °C rated value 	38.8 A
 at 50 °C rated value 	37.6 A
 at 55 °C rated value 	36.3 A
 at 60 °C rated value 	35.2 A
at AC rated value	40 A
Main circuit	
type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02	240
suitability for operation	Mechanical engineering / industry
Product details	
product component	
 tunnel terminals top 	No
 tunnel terminals bottom 	No
 combined terminal top 	Yes
 combined terminal bottom 	Yes
 neutral conductor switching 	No
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	
short-circuit current breaking capacity (Icn) at AC according to UL 1077 and CSA C22.2 No.235	10 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	110 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	175 g
Environmental conditions	
vibration resistance	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) ±1 mm at 5 to 25 Hz; 50 m/s² at 25 to 150 Hz
vibration resistance according to IEC 60068-2-6	50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) ±1 mm at 5 to 25 Hz; 50 m/s² at 25 to 150 Hz
vibration resistance according to IEC 60068-2-6 ambient temperature during operation	±1 mm at 5 to 25 Hz; 50 m/s² at 25 to 150 Hz
vibration resistance according to IEC 60068-2-6 ambient temperature during operation • minimum • maximum	±1 mm at 5 to 25 Hz; 50 m/s ² at 25 to 150 Hz 55 °C -25 °C
vibration resistance according to IEC 60068-2-6 ambient temperature during operation • minimum • maximum ambient temperature during operation	±1 mm at 5 to 25 Hz; 50 m/s ² at 25 to 150 Hz 55 °C
vibration resistance according to IEC 60068-2-6 ambient temperature during operation • minimum • maximum ambient temperature during operation ambient temperature during storage	±1 mm at 5 to 25 Hz; 50 m/s² at 25 to 150 Hz 55 °C -25 °C max. 95% humidity
vibration resistance according to IEC 60068-2-6 ambient temperature during operation • minimum • maximum ambient temperature during operation	±1 mm at 5 to 25 Hz; 50 m/s ² at 25 to 150 Hz 55 °C -25 °C
vibration resistance according to IEC 60068-2-6 ambient temperature during operation	±1 mm at 5 to 25 Hz; 50 m/s² at 25 to 150 Hz 55 °C -25 °C max. 95% humidity -40 °C



Confirmation









Special Test Certific-Miscellaneous ate

Confirmation

Miscellaneous

Environmental Confirmations

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=5SJ4140-8HG41

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

https://support.industry.siemens.com/cs/ww/en/ps/5SJ4140-8HG41

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4140-8HG41

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications





