SIEMENS

Data sheet 5SJ4350-7HG41



Miniature circuit breaker 240 V 10kA, 3-pole, C, 50 A, D=70 mm according to UL 489 $\,$

product brand name product designation design of the product designation design of the product Miniature circuit-breakers Miniature circuit-breaker SSJ4 General technical data number of poles design of pole 3P	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 poliution 3 Voltage insulation voltage (Ui) at AC rated value * at C rated value * at AC rated value * 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 * 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 * at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum * at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum * at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum * at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum * at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum * at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum * at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum * at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum * at DC 3-channel according to EU 489 and CSA C22.2 No. 5-02 maximum * at DC 3-channel according to EU 489 and CSA C22.2 No. 5-02 maximum * at DC 3-channel according to EU 5-channel according to E	product brand name	SENTRON
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 2042 according to IEC 750 overvoltage category degree of pollution Voltage supply voltage supply voltage **at AC rated value** **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 2-channel according to UL 489 and CSA C22.2 No. 5-02 C22 No. 5-02 maximum **at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 C22 No. 5-02 maximum **at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 C22 No. 5-02 maximum **at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 **supply voltage frequency rated value maximum **supply voltage frequency maximum **supply voltage freque	product designation	Miniature circuit breakers
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 **Supply voltage supply voltage supply voltage **at AC rated value **at C rated value **at C C 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 **at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum **at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum **at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum **at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum **at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum **at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum **at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum **supply voltage frequency rated value **50 Hz Protection class IP Switching capacity switching capacity switching capacity current **according to IEC 60947-2 rated value **accordin	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 3 Voltage insulation voltage (UI) at AC rated value 440 V Supply voltage 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 be at AC rated value at CD rated value at CD rated value at DC rated value any operating voltage at AC rated value any operating voltage at CD cated value maximum at DC rated value maximum be at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum at DC co-channel according to UL 489 and CSA C22.2 No. 5-02 maximum be at DC co-channel according to UL 489 and CSA C22.2 No. 5-02 maximum be at DC rated value at CD co-channel according to UL 489 and CSA C22.2 No. 5-02 maximum be at DC rated value at CD co-channel according to UL 489 and CSA C22.2 No. 5-02 maximum be at DC rated value be according to EN 60989 rated value according to EN 60989 rated value be according to EN 60989 rated value be according to EN 60989 rated value according to EN 60989 rated value be according to EN 60989 rated value be according to EN 60989 rated value according to EN 60989 rated value be according to EN 60989 rated value according to EN 60989 rated value be according to EN 60989 rated value according to EN 60989 rated value according to EN 60989 rated value be according to EN 60989 rated value a	General technical data	
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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 3 Voltage insulation voltage (Ui) at AC rated value 440 V Supply voltage supply voltage 440 V Supply voltage 400 V 400	design of pole	3P
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reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750 overvoltage category 3 3 degree of pollution 3 3 Voltage 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 60 V voltage 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 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 • 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 • 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 • 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 • 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 • 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 • 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 • at DC 2-channel according to UL 489 and CSA C22.2 No.5-02 maximum • at DC 2-channel	mechanical service life (operating cycles) typical	10 000
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 50/660 Hz operating voltage ***at AC according to UL 489 and CSA C22.2 No. 5-02 maximum ***at AC rated value maximum 60 V ***at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum 125 V **C22.2 No. 5-02 maximum 50 Hz	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
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 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 2.2 No. 5-02 maximum • at DC 2-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 supply voltage frequency rated value 50 Hz Protection class protection class IP 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	overvoltage category	
insulation voltage (Ui) at AC rated value Supply voltage supply voltage • 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 50 Hz 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 TiskA 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 • 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	
supply voltage • 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 supply voltage frequency rated value Protection class protection class protection class IP Switching capacity switching capacity switching capacity current • according to EN 60898 rated value • according to EN 60898 rated value 10 kA • 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	insulation voltage (Ui) at AC rated value	440 V
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 Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Current	Supply voltage	
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 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	supply voltage	
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 IP Switching capacity switching capacity switching capacity current • according to EN 60898 rated value • 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 state per pole Current	 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 • 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 switching capacity current • according to EN 60898 rated value 10 kA • 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 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 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		240 V
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 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
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	· · · · · · · · · · · · · · · · · · ·	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
 according to EN 60898 rated value according to IEC 60947-2 rated value bissipation power loss [W] for rated value of the current at AC in hot operating state per pole Current 	Switching capacity	
 according to EN 60898 rated value according to IEC 60947-2 rated value bissipation power loss [W] for rated value of the current at AC in hot operating state per pole Current 	switching capacity current	
Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Current 6.3 W		10 kA
power loss [W] for rated value of the current at AC in hot operating state per pole Current 6.3 W	 according to IEC 60947-2 rated value 	15 kA
operating state per pole Current	Dissipation	
		6.3 W
operational current	Current	
	operational current	

 at 30 °C rated value 	50 A
 at 40 °C rated value 	50 A
 at 45 °C rated value 	49 A
 at 50 °C rated value 	48 A
 at 55 °C rated value 	46.9 A
 at 60 °C rated value 	46 A
at AC rated value	50 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	100
product function note	Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in
·	Terrimal lighterning torque for Gu, 60/75 G, 5.5/4/1/3/16.in
Short circuit	40.14
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	54 mm
depth	70 mm
installation depth	70 mm
number of modular width units	3
fastening method	on standard mounting rail
mounting position	any
net weight	514 g
Environmental conditions	
2 0 1 1	
Vibration resistance	50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)
vibration resistance 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	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	±1 mm at 5 to 25 Hz; 50 m/s² at 25 to 150 Hz 55 °C
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	±1 mm at 5 to 25 Hz; 50 m/s² 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	±1 mm at 5 to 25 Hz; 50 m/s² at 25 to 150 Hz 55 °C -25 °C max. 95% humidity -40 °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

Confirmation











Test Certificates other

<u>Miscellaneous</u> <u>Special Test Certificate</u> <u>Confirmation</u> <u>Miscellaneous</u> <u>Environmental Confirmations</u>

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=5SJ4350-7HG41

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

https://support.industry.siemens.com/cs/ww/en/ps/5SJ4350-7HG41

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4350-7HG41

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications





