SIEMENS

Data sheet

5SJ4240-7HG41



Miniature circuit breaker 240 V 14kA, 2-pole, C, 40A, D=70 mm according to UL 489 $\,$

product brand name SENTRON product designation Miniature circuit breakers design of the product Miniature circuit-breaker SSL4 General technical data 2 number of poles 2 itpping characteristic class C mechanical service life (switching copies) / typical 10 000 installation environment regarding EMC Suitable for environment B (immunity to interference not applicable) reference code / according to DIN 40719 extended 3 according to IEC 204.2 / according to IEC 750 3 overvoltage category 3 type of voltage / of the operating voltage AC/DC insulation voltage (UI) / at AC / rated value 400 V supply voltage • AC/D / according to UL 489 and CSA C22.2 No.5- 02 / maximum 60 V • at C/ / according to UL 489 and CSA 125 V c222 No. 5-02 / maximum 50 Hz Protection class P protection class IP IP20, with connected conductors, IP 40 in the handle range Switching capacity ourent • according to IEC 60947.2 / rated value • according to IEC 60947.2 / rated value	Model	
design of the product Miniature circuit-breaker 5SJ4 General technical data number of poles 2 tripping characteristic class C mechanical service life (switching cycles) / typical 10 000 installation environment regarding EMC Suitable for environment B (immunity to interference not applicable) reference code / according to DIN 40719 extended according to IEC 204-27 according to IEC 750 overvoltage category 3 degree of pollution 3 Voltage AC/DC insulation voltage (UI) / at AC / rated value 440 V Supply voltage / at AC / rated value 440 V Supply voltage / at AC / rated value 400 V operating voltage (U) / at AC / rated value 400 V operating voltage (U) / at AC / rated value 60 V e at DC / single channel / according to UL 489 and CSA 125 V c222 2No. 5-02 / maximum 60 V e at DC / single channel / according to UL 489 and CSA 125 V c222 2No. 5-02 / maximum 50 Hz Protection class IP IP20, with connected conductors, IP 40 in the handle range Switching capacity current eaccording to EK 60898 / rated value e according to EK 60898 / rated value 10 kA e according to EK 60898 / rated value 10 kA e	product brand name	SENTRON
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tripping characteristic class C mechanical service life (switching cycles) / typical 10 000 installation environment regarding EMC Suitable for environment B (immunity to interference not applicable) reference code / according to DIN 40719 extended F according to IEC 204-2 / according to IEC 750 3 overvoltage category 3 degree of pollution 3 Voltage AC/DC insulation voltage (UI) / at AC / rated value 440 V Supply voltage / at AC / rated value 400 V operating voltage eat AC / rated value • at DC / according to UL 489 and CSA C22.2 No. 5-02 / maximum 240 V • at DC / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum 240 V • at DC / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum 240 V • at DC / acted value / maximum 60 V • at DC / according to UL 489 and CSA C22.2 No. 5-02 / maximum 125 V • at DC / according to UL 489 and CSA 22 V • according to EC 60947-2 / rated value 50 Hz Protection class IP IP20, with connected conductors, IP 40 in the handle range Switching capacity current • according to EC 60947-2 / rated v	General technical data	
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Installation environment regarding EMC Suitable for environment B (immunity to interference not applicable) reference code / according to DIN 40719 extended according to IEC 204-2 / according to IEC 750 F overvoltage category 3 degree of pollution 3 Voltage insulation voltage (JI) / at AC / rated value AC/DC supply voltage / of the operating voltage insulation voltage (UI) / at AC / rated value 440 V Supply voltage / at AC / rated value 400 V operating voltage (JI) / at AC / rated value 400 V operating voltage / at AC / rated value 400 V operating voltage / at AC / rated value 60 V operating voltage / at AC / rated value 60 V e at DC / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum 125 V e at DC / 2-channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum 50 Hz Protection class IP IP20, with connected conductors, IP 40 in the handle range Switching capacity 10 kA e according to EN 60898 / rated value 10 kA e according to IEC 60947-2 / rated value 15 kA Dissipation pover loss [W] / for rated value of the current / at AC / in hot operating state / per pole	tripping characteristic class	С
reference code / according to DIN 40719 extended according to IEC 204-2 / according to IEC 750 F overvoltage category 3 degree of pollution 3 Voltage AC/DC insulation voltage / of the operating voltage AC/DC insulation voltage / of the operating voltage AC/DC isupply voltage / at AC / rated value 440 V Supply voltage et AC / rated value 400 V operating voltage et AC / rated value 400 V operating voltage et AC / rated value 400 V operating voltage et AC / rated value 400 V operating voltage et AC / rated value / maximum 60 V et at DC / rated value / maximum 60 V 60 V et at DC / single channel / according to UL 489 and CSA 125 V C22.2 No. 5-02 / maximum 50 Hz Protection class IP IP20, with connected conductors, IP 40 in the handle range Switching capacity switching capacity switching capacity switching capacity switching capacity 10 kA • according to EIC 60947-2 / rated value 10 kA 4.8 W operational current • at 30 "C / ra	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 AC/DC insulation voltage / of the operating voltage AC/DC insulation voltage (Ui) / at AC / rated value 440 V Supply voltage 400 V operating voltage 60 V C / according to UL 489 and CSA C22.2 No. 5-0 2 / maximum 60 V c At DC / single channel / according to UL 489 and CSA 125 V c 22.2 No. 5-02 / maximum 125 V c 22.2 No. 5-02 / maximum 50 Hz Protection class IP IP20, with connected conductors, IP 40 in the handle range Switching capacity 10 kA • according to EK 60947-2 / rated value 10 kA • according to EK 60947-2 / rated value 15 kA Dissipation 4.8 W operational current	installation environment regarding EMC	Suitable for environment B (immunity to interference not applicable)
degree of pollution 3 Voltage AC/DC insulation voltage (Ui) / at AC / rated value 440 V Supply voltage 440 V operating voltage 400 V operating voltage 60 V c22 2.No .5-02 / maximum 60 V c22.2 No .5-02 / maximum 50 Hz Protection class Protection class IP protection class IP IP20, with connected conductors, IP 40 in the handle range Switching capacity current according to IEC 60947-2 / rated value 10 kA according to IEC 60947-2 / rated value	0	F
Voltage AC/DC insulation voltage (Ui) / at AC / rated value 440 V Supply voltage 440 V supply voltage / at AC / rated value 400 V operating voltage 400 V • at AC / according to UL 489 and CSA C22.2 No. 5- 02 / maximum 240 V • at DC / rated value / maximum 60 V • at DC / rated value / maximum 60 V • at DC / rated value / maximum 60 V • at DC / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum 125 V • at DC / 2-channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum 50 Hz Protection class IP20, with connected conductors, IP 40 in the handle range Switching capacity current 10 kA • according to EN 60898 / rated value 10 kA • according to IEC 60947-2 / rated value 15 kA Dissipation 4.8 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 4.8 W	overvoltage category	3
type of voltage / of the operating voltage AC/DC insulation voltage (Ui) / at AC / rated value 440 V Supply voltage 400 V operating voltage 400 V • at AC / rated value 400 V operating voltage 400 V • at AC / rated value 400 V • at AC / rated value / maximum 60 V • at DC / rated value / maximum 60 V • at DC / single channel / according to UL 489 and CSA 60 V • at DC / 2-channel / according to UL 489 and CSA 22.2 No. 5-02 / maximum • at DC / 2-channel / according to UL 489 and CSA 125 V c22.2 No. 5-02 / maximum 50 Hz Protection class IP20, with connected conductors, IP 40 in the handle range Switching capacity current 10 kA • according to EC 60947-2 / rated value 10 kA • according to EC 60947-2 / rated value 15 kA Dissipation 4.8 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 4.8 W current • at 30 °C / rated value 40 A	degree of pollution	3
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supply voltage / at AC / rated value 400 V operating voltage 400 V operating voltage at AC / according to UL 489 and CSA C22.2 No. 5- 02 / maximum 240 V • at DC / rated value / maximum 60 V • at DC / rated value / maximum 60 V • at DC / single channel / according to UL 489 and CSA 22.2 No. 5-02 / maximum • at DC / 2-channel / according to UL 489 and CSA 125 V C22.2 No. 5-02 / maximum 50 Hz 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 IEC 60947-2 / rated value 15 kA Dissipation 4.8 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 4.8 W current • at 30 °C / rated value 40 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 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 protection class IP IP20, with connected conductors, IP 40 in the handle range Switching capacity current	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 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 protection class IP IP20, with connected conductors, IP 40 in the handle range switching capacity current according to EN 60898 / rated value to kA according to IEC 60947-2 / rated value to kA ber at a 30 °C / rated value at 30 °C / rated value 	supply voltage / at AC / rated value	400 V
02 / maximum 60 V • at DC / rated value / maximum 60 V • at DC / Single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum 60 V • at DC / 2-channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum 125 V supply voltage frequency / rated value 50 Hz Protection class protection class IP 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 4.8 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 4.8 W current • at 30 °C / rated value 40 A	operating voltage	
• at DC / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum 60 V • at DC / 2-channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum 125 V supply voltage frequency / rated value 50 Hz Protection class 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 4.8 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 4.8 W operational current 40 A	8	240 V
CSA C22.2 No. 5-02 / maximum it DC / 2-channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum 125 V supply voltage frequency / rated value 50 Hz Protection class in the handle range protection class IP IP20, with connected conductors, IP 40 in the handle range Switching capacity switching capacity switching capacity current in the handle range • according to EN 60898 / rated value 10 kA • according to IEC 60947-2 / rated value 15 kA Dissipation 4.8 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 4.8 W	 at DC / rated value / maximum 	60 V
C22.2 No. 5-02 / maximum 50 Hz supply voltage frequency / rated value 50 Hz Protection class IP20, with connected conductors, IP 40 in the handle range switching capacity 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 4.8 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 4.8 W operational current 40 A		60 V
Protection class IP20, with connected conductors, IP 40 in the handle range Switching capacity 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 • at 30 °C / rated value 40 A		125 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 4.8 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 4.8 W Current • at 30 °C / rated value 40 A	supply voltage frequency / rated value	50 Hz
Switching capacity switching capacity current • according to EN 60898 / rated value 10 kA • according to IEC 60947-2 / rated value 15 kA Dissipation 15 kA power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 4.8 W Current • at 30 °C / rated value 40 A	Protection class	
switching capacity current 10 kA • according to EN 60898 / rated value 10 kA • according to IEC 60947-2 / rated value 15 kA Dissipation 15 kA power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 4.8 W Current operational current • at 30 °C / rated value 40 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 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 40 A 	Switching capacity	
	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 40 A	 according to EN 60898 / rated value 	10 kA
power loss [W] / for rated value of the current / at AC / in 4.8 W hot operating state / per pole 4.8 W Current operational current • at 30 °C / rated value 40 A	 according to IEC 60947-2 / rated value 	15 kA
hot operating state / per pole Current operational current	Dissipation	
operational current • at 30 °C / rated value 40 A		4.8 W
• at 30 °C / rated value 40 A	Current	
	operational current	
• at 40 °C / rated value 40 A	• at 30 °C / rated value	40 A
	• at 40 °C / rated value	40 A

a at 45 °C / rated value	20.0 Å
• at 45 °C / rated value	38.8 A
• at 50 °C / rated value	38 A
• at 55 °C / rated value	37 A
• at 60 °C / rated value	36 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 / 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	
	0.75 mm²
with core end processing	0.75 mm² 25 mm²
with core end processingminimum	
with core end processingminimummaximum	25 mm ²
with core end processing minimum maximum tightening torque / with screw-type terminals / maximum	25 mm ² 3.5 N·m
with core end processing	25 mm² 3.5 N·m
with core end processing minimum maximum tightening torque / with screw-type terminals / maximum position / of power supply cord	25 mm² 3.5 N·m Any
with core end processing minimum maximum tightening torque / with screw-type terminals / maximum position / of power supply cord Mechanical Design height width 	25 mm ² 3.5 N·m Any 110 mm 36 mm
with core end processing minimum maximum tightening torque / with screw-type terminals / maximum position / of power supply cord Mechanical Design height 	25 mm² 3.5 N·m Any 110 mm
with core end processing minimum maximum tightening torque / with screw-type terminals / maximum position / of power supply cord Mechanical Design height width depth 	25 mm ² 3.5 N·m Any 110 mm 36 mm 70 mm
 with core end processing minimum maximum tightening torque / with screw-type terminals / maximum position / of power supply cord Mechanical Design height width depth installation depth 	25 mm ² 3.5 N·m Any 110 mm 36 mm 70 mm 70 mm
 with core end processing minimum maximum tightening torque / with screw-type terminals / maximum position / of power supply cord Mechanical Design height width depth installation depth number of modular width units fastening method 	25 mm ² 3.5 N·m Any 110 mm 36 mm 70 mm 70 mm 2
 with core end processing minimum maximum tightening torque / with screw-type terminals / maximum position / of power supply cord Mechanical Design height width depth installation depth number of modular width units 	25 mm² 3.5 N·m Any 110 mm 36 mm 70 mm 70 mm 2 on standard mounting rail
 with core end processing minimum maximum tightening torque / with screw-type terminals / maximum position / of power supply cord Mechanical Design height width depth installation depth number of modular width units fastening method mounting position 	25 mm² 3.5 N·m Any 110 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any
 with core end processing minimum maximum tightening torque / with screw-type terminals / maximum position / of power supply cord Mechanical Design height width depth installation depth number of modular width units fastening method mounting position net weight 	25 mm² 3.5 N·m Any 110 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any
 with core end processing minimum maximum tightening torque / with screw-type terminals / maximum position / of power supply cord Mechanical Design height width depth installation depth number of modular width units fastening method mounting position net weight 	25 mm² 3.5 N·m Any 110 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any 334 g
 with core end processing minimum maximum tightening torque / with screw-type terminals / maximum position / of power supply cord Mechanical Design height width depth installation depth number of modular width units fastening method mounting position net weight Environmental conditions vibration resistance 	25 mm² 3.5 N·m Any 110 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any 334 g
 with core end processing minimum maximum tightening torque / with screw-type terminals / maximum position / of power supply cord Mechanical Design height width depth installation depth number of modular width units fastening method mounting position net weight Environmental conditions vibration resistance ambient temperature / during operation 	25 mm ² 3.5 N·m Any 110 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any 334 g 50 m/s ² at 25 to 150Hz and 60m/s ² at 35Hz (4sec)
 with core end processing minimum maximum tightening torque / with screw-type terminals / maximum position / of power supply cord Mechanical Design height width depth installation depth number of modular width units fastening method mounting position net weight Environmental conditions vibration resistance ambient temperature / during operation minimum 	25 mm² 3.5 N·m Any 110 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any 334 g 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) 55 °C
 with core end processing minimum maximum tightening torque / with screw-type terminals / maximum position / of power supply cord Mechanical Design height width depth installation depth number of modular width units fastening method mounting position net weight Environmental conditions vibration resistance ambient temperature / during operation minimum maximum 	25 mm² 3.5 N·m Any 110 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any 334 g 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) 55 °C
 with core end processing minimum maximum tightening torque / with screw-type terminals / maximum position / of power supply cord Mechanical Design height width depth installation depth number of modular width units fastening method mounting position net weight Environmental conditions vibration resistance ambient temperature / during operation maximum ambient temperature / during storage 	25 mm² 3.5 N·m Any 110 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any 334 g 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) 55 °C -25 °C
 with core end processing minimum maximum tightening torque / with screw-type terminals / maximum position / of power supply cord Mechanical Design height width depth installation depth number of modular width units fastening method mounting position net weight Environmental conditions vibration resistance ambient temperature / during operation minimum maximum 	25 mm² 3.5 N·m Any 110 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any 334 g 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) 55 °C -25 °C -40 °C
with core end processing minimum maximum tightening torque / with screw-type terminals / maximum position / of power supply cord Mechanical Design height width depth installation depth number of modular width units fastening method mounting position net weight Environmental conditions vibration resistance ambient temperature / during operation minimum maximum 	25 mm² 3.5 N·m Any 110 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any 334 g 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) 55 °C -25 °C -40 °C
with core end processing minimum maximum tightening torque / with screw-type terminals / maximum position / of power supply cord Mechanical Design height width depth installation depth number of modular width units fastening method mounting position net weight Environmental conditions vibration resistance ambient temperature / during operation minimum maximum ambient temperature / during storage minimum maximum Certificates	25 mm² 3.5 N·m Any 110 mm 36 mm 70 mm 70 mm 70 mm 2 on standard mounting rail any 334 g 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) 55 °C -25 °C -40 °C
 with core end processing minimum maximum tightening torque / with screw-type terminals / maximum position / of power supply cord Mechanical Design height width depth installation depth number of modular width units fastening method mounting position net weight Environmental conditions vibration resistance ambient temperature / during operation minimum maximum ambient temperature / during storage minimum maximum 	25 mm² 3.5 N·m Any 110 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any 334 g 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) 55 °C -25 °C -40 °C 75 °C
with core end processing minimum maximum tightening torque / with screw-type terminals / maximum position / of power supply cord Mechanical Design height width depth installation depth number of modular width units fastening method mounting position net weight Environmental conditions vibration resistance ambient temperature / during operation minimum maximum ambient temperature / during storage minimum maximum Certificates reference code according to EN 61346-2 	25 mm² 3.5 N·m Any 110 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any 334 g 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) 55 °C -25 °C -40 °C 75 °C F



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EHC

Test Certificates

Miscellaneous

Special Test Certific- Miscellaneous

other

Further information

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