## **SIEMENS**

Data sheet 5SJ4210-7HG41



Miniature circuit breaker 240 V 14kA, 2-pole, C, 10A, D=70 mm according to UL 489  $\,$ 

Model	
product brand name	SENTRON
product designation	Miniature circuit breakers
design of the product	Miniature circuit-breaker 5SJ4
General technical data	
number of poles	2
number of poles / note	2P
tripping characteristic class	С
mechanical service life (operating cycles) / typical	10 000
installation environment regarding EMC	Suitable for environment B (immunity to interference not applicable)
reference code / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750	F
overvoltage category	3
degree of pollution	3
Voltage	
insulation voltage / at AC / rated value	440 V
Supply voltage	
type of voltage	AC/DC
supply voltage / at AC / rated value	400 V
operating voltage	
<ul> <li>at AC / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum</li> </ul>	240 V
<ul><li>at DC / rated value / maximum</li></ul>	60 V
<ul> <li>at DC / single channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum</li> </ul>	60 V
<ul> <li>at DC / 2-channel / acc. to UL 489 and CSA C22.2</li> <li>No. 5-02 / maximum</li> </ul>	125 V
Protection class	
protection class IP	IP20, with connected conductors, IP 40 in the handle range
Switching capacity	
switching capacity current	
• acc. to EN 60898 / rated value	10 kA
• acc. 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	1.4 W
Current	
operational current	

<ul><li>at 30 °C / rated value</li></ul>	10 A
<ul><li>at 40 °C / rated value</li></ul>	10 A
<ul><li>at 45 °C / rated value</li></ul>	9.7 A
<ul><li>at 50 °C / rated value</li></ul>	9.4 A
<ul><li>at 55 °C / rated value</li></ul>	9.1 A
<ul> <li>at 60 °C / rated value</li> </ul>	0.88 A
<ul><li>at AC / rated value</li></ul>	10 A
Main circuit	
type of voltage supply / at AC / acc. to UL 489 and CSA C22.2 No. 5-02	240
suitability for operation	Mechanical engineering / industry
Product details	
product function / neutral conductor switching	No
product feature / touch protection	Yes
product component	165
	No
<ul><li>tunnel terminals top</li><li>tunnel terminals bottom</li></ul>	No
combined terminal top	Yes
combined terminal bottom	Yes
product feature	
<ul><li>halogen-free</li></ul>	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 / acc. to UL 1077 and CSA C22.2 No.235	14 kA
Connections	
connectable conductor cross-section / finely stranded /	
	0.75 mm <sup>2</sup>
connectable conductor cross-section / finely stranded / with core end processing	
connectable conductor cross-section / finely stranded / with core end processing	0.75 mm <sup>2</sup> 25 mm <sup>2</sup>
connectable conductor cross-section / finely stranded / with core end processing	25 mm²
connectable conductor cross-section / finely stranded / with core end processing	25 mm² 3.5 N·m
connectable conductor cross-section / finely stranded / with core end processing	25 mm²
connectable conductor cross-section / finely stranded / with core end processing	25 mm²  3.5 N·m  Any
connectable conductor cross-section / finely stranded / with core end processing	25 mm²  3.5 N·m  Any  110 mm
connectable conductor cross-section / finely stranded / with core end processing	25 mm²  3.5 N·m  Any  110 mm  36 mm
connectable conductor cross-section / finely stranded / with core end processing	25 mm²  3.5 N·m  Any  110 mm  36 mm  70 mm
connectable conductor cross-section / finely stranded / 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 mm²  3.5 N·m  Any  110 mm  36 mm  70 mm  70 mm
connectable conductor cross-section / finely stranded / 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  2
connectable conductor cross-section / finely stranded / with core end processing	25 mm²  3.5 N·m  Any  110 mm  36 mm  70 mm  70 mm  2  on standard mounting rail
connectable conductor cross-section / finely stranded / with core end processing	25 mm²  3.5 N·m  Any  110 mm  36 mm  70 mm  70 mm  2  on standard mounting rail any
connectable conductor cross-section / finely stranded / 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
connectable conductor cross-section / finely stranded / 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	25 mm²  3.5 N·m  Any  110 mm  36 mm  70 mm  2 on standard mounting rail any  326 g
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connectable conductor cross-section / finely stranded / 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  influence of the surrounding temperature  vibration resistance ambient temperature / during operation	3.5 N·m Any  110 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any 326 g  max. 95% humidity 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)
connectable conductor cross-section / finely stranded / 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         influence of the surrounding temperature         vibration resistance	3.5 N·m Any  110 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any 326 g  max. 95% humidity 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)
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connectable conductor cross-section / finely stranded / with core end processing	3.5 N·m Any  110 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any 326 g  max. 95% humidity 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)  55 °C -25 °C -40 °C
connectable conductor cross-section / finely stranded / with core end processing	3.5 N·m Any  110 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any 326 g  max. 95% humidity 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)  55 °C -25 °C -40 °C
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• acc. to IEC 81346-2

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## **General Product Approval**

Declaration of Conformity

**Test Certificates** 











**Miscellaneous** 

## **Test Certificates**

Special Test Certificate

## **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=5SJ4210-7HG41

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

https://support.industry.siemens.com/cs/ww/en/ps/5SJ4210-7HG41

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

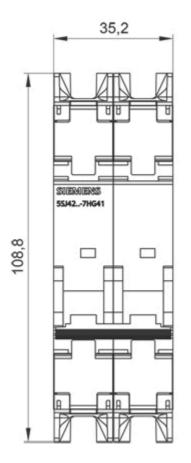
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=5SJ4210-7HG41

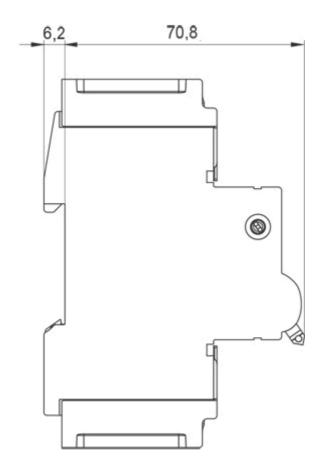
**CAx-Online-Generator** 

http://www.siemens.com/cax

**Tender specifications** 

http://www.siemens.com/specifications





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