## SIEMENS

## Data sheet

## 5SJ4110-7HG42

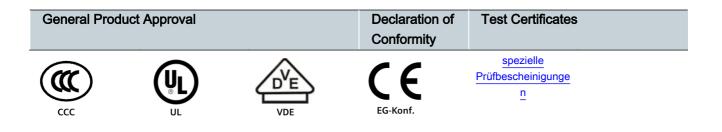
CIRCUIT BREAKER 10KA, 1POLE, C, 10A ACC. TO UL 489 - 277V



Model		
product brandname	SENTRON	
Product designation	Miniature circuit breakers	
Design of the product	Miniature circuit-breaker 5SJ4	
General technical data		
Number of poles	1	
Number of poles / Note	1P	
Tripping characteristic class	С	
Installation environment regarding EMC	Suitable for environment B (immunity to interference not applicable)	
circuit-breaker / Design	5SJ4	
Mechanical service life (switching cycles) / typical	20 000	
Equipment marking / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750	F	
Overvoltage category	3	
Voltage		
Type of voltage	AC/DC	
Insulation voltage / at AC / rated value	440 V	

Supply voltage	
Supply voltage / at AC / rated value	400 V
Supply voltage frequency / rated value	50 Hz
Protection class	
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]	
<ul> <li>for rated value of the current / at AC / in hot operating state / per pole</li> </ul>	1.4 W
• maximum	1 W
Electricity	
rated current In / IEC, DIN/VDE / at 40 Cel	10 A
Current / at AC / rated value	10 A
Main circuit	
Type of voltage supply / at AC / acc. to UL 489 and	480/277
CSA C22.2 No. 5-02	
Operating voltage	
• minimum	24 V
• at AC / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum	277 V
<ul> <li>at DC / 1-channel / acc. to UL 489 and CSA</li> <li>C22.2 No. 5-02 / maximum</li> </ul>	60 V
<ul> <li>at DC / 2-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum</li> </ul>	125 V
• at DC / rated value / maximum	60 V
Product details	
Product feature / Touch protection	Yes
Product component	
<ul> <li>Tunnel terminals top</li> </ul>	No
<ul> <li>Tunnel terminals bottom</li> </ul>	No
<ul> <li>combined terminal top</li> </ul>	Yes
<ul> <li>combined terminal bottom</li> </ul>	Yes
Product feature	
• halogen-free	Yes
• sealable	Yes
• silicon-free	Yes

Product extension / can be installed / supplementary devices	Yes	
Product function		
Product function		
• Note	Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in	
<ul> <li>neutral conductor switching</li> </ul>	No	
Short circuit		
Breaking capacity short-circuit current (Icn) / at AC /	10 kA	
acc. to UL 1077 and CSA C22.2 No.235		
Number		
Number of test cycles / for environmental testing / acc. to IEC 60068-2-30	6	
Connections		
Connectable conductor cross-section / finely		
stranded / with core end processing		
• minimum	1.5 mm²	
• maximum	25 mm <sup>2</sup>	
Position / of power supply cord	Any	
Mechanical Design		
Height	121 mm	
Width	18 mm	
Depth	76 mm	
Mounting position	any	
Installation depth	70 mm	
Number of width units	1	
Mounting type	on standard mounting rail	
Environmental conditions		
Degree of pollution	3	
Influence of the surrounding temperature	max. 95% humidity	
Vibration resistance	50 m/s <sup>2</sup> at 25 to 150Hz and 60m/s <sup>2</sup> at 35Hz (4sec)	
Vibration resistance / acc. to IEC 60068-2-6	50 m/s <sup>2</sup> at 25 to 150Hz and 60m/s <sup>2</sup> at 35Hz (4sec)	
Ambient temperature		
• minimum	-25 °C	
• maximum	55 °C	
<ul> <li>during storage / minimum</li> </ul>	-40 °C	
<ul> <li>during storage / maximum</li> </ul>	75 °C	
Certificates		
Equipment marking		
• acc. to DIN EN 61346-2	F	
• acc. to DIN EN 81346-2	F	



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=5SJ4110-7HG42

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/5SJ4110-7HG42/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=5SJ4110-7HG42

**CAx-Online-Generator** http://www.siemens.com/cax

**Tender specifications** 

http://www.siemens.com/specifications

