## **SIEMENS**

Data sheet 5SJ4310-7HG42



Circuit breaker 10kA, 3-pole, C, 10 A according to UL 489-480Y/277V

Model		
product brand name	SENTRON	
product designation	Miniature circuit breakers	
design of the product	Miniature circuit-breaker 5SJ4	
General technical data		
number of poles	3	
tripping characteristic class	С	
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 204-2 / according to IEC 750	F	
overvoltage category	3	
degree of pollution	3	
Voltage		
type of voltage / of the operating voltage	AC/DC	
insulation voltage (Ui) / at AC / rated value	440 V	
Supply voltage		
supply voltage / at AC / rated value	400 V	
operating voltage		
<ul> <li>at AC / according to UL 489 and CSA C22.2 No. 5- 02 / maximum</li> </ul>	277 V	
<ul><li>at DC / rated value / maximum</li></ul>	60 V	
<ul> <li>at DC / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum</li> </ul>	60 V	
<ul> <li>at DC / 2-channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum</li> </ul>	125 V	
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		
<ul> <li>according to EN 60898 / rated value</li> </ul>	10 kA	
<ul> <li>according to IEC 60947-2 / rated value</li> </ul>	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		
• at 30 °C / rated value	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	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 / according to UL 489 and CSA C22.2 No. 5-02	480/277			
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	163			
	T	0411.		
product function / note	Terminal tightening torque for Cu, 60/75°C; 3.5Nm/	31ID.IN		
Short circuit				
breaking capacity short-circuit current (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 <sup>2</sup>			
• maximum	25 mm²			
tightening torque / with screw-type terminals / maximum	3.5 N·m			
position / of power supply cord	Any			
Mechanical Design				
height	121 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	490 g			
Environmental conditions				
vibration resistance	50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)			
ambient temperature / during operation	((333)			
• minimum	55 °C			
maximum	-25 °C			
ambient temperature / during storage				
• minimum	-40 °C			
maximum	75 °C			
Certificates				
reference code				
according to EN 61346-2	F			
• according to ER 61346-2	F			
according to 120 0 1040-2		Declaration of		
General Product Approval				











Declaration of Conformity

**Test Certificates** 

other



Special Test Certificate

**Miscellaneous** 

## 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=5SJ4310-7HG42

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

https://support.industry.siemens.com/cs/ww/en/ps/5SJ4310-7HG42

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

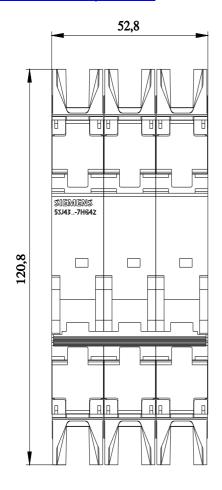
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=5SJ4310-7HG42

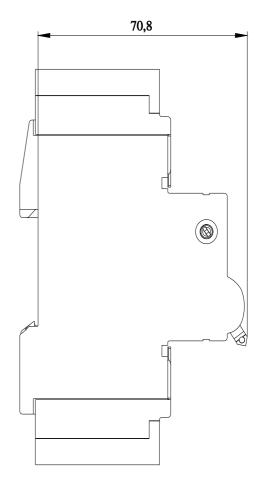
**CAx-Online-Generator** 

http://www.siemens.com/cax

**Tender specifications** 

http://www.siemens.com/specifications





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