



Circuit breaker 10kA, 3-pole, D, 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
design of pole	3P
tripping characteristic class	D
mechanical service life (operating 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	
insulation voltage (Ui) at AC rated value	440 V
Supply voltage	
supply voltage	
• at AC rated value	400 V
• at DC rated value	60 V
value range of the supply voltage frequency	50/60 Hz
operating voltage	
• at AC according to UL 489 and CSA C22.2 No. 5-02 maximum	277 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	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	1.3 W
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			
• 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			
product function note		Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in	
Short circuit			
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 mm²	
• 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		496 g	
Environmental conditions			
standard		IEC / EN 60947-2 / UL 489	
vibration resistance		50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)	
vibration resistance according to IEC 60068-2-6		±1 mm at 5 to 25 Hz; 50 m/s² at 25 to 150 Hz	
ambient temperature during operation			
• minimum		55 °C	
• maximum		-25 °C	
ambient temperature during operation		max. 95% humidity	
ambient temperature during storage			
• minimum		-40 °C	
• maximum		75 °C	
General Product Approval			Declaration of Con- formity

[Confirmation](#)



Declaration of Con- formity	Test Certificates	other	Environment
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[Special Test Certificate](#)

[Miscellaneous](#)

[Confirmation](#)

[Environmental Con-  
firmations](#)

## Further information

Siemens has decided to exit the Russian market (see here).

<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=5SJ4310-8HG42>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SJ4310-8HG42>

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

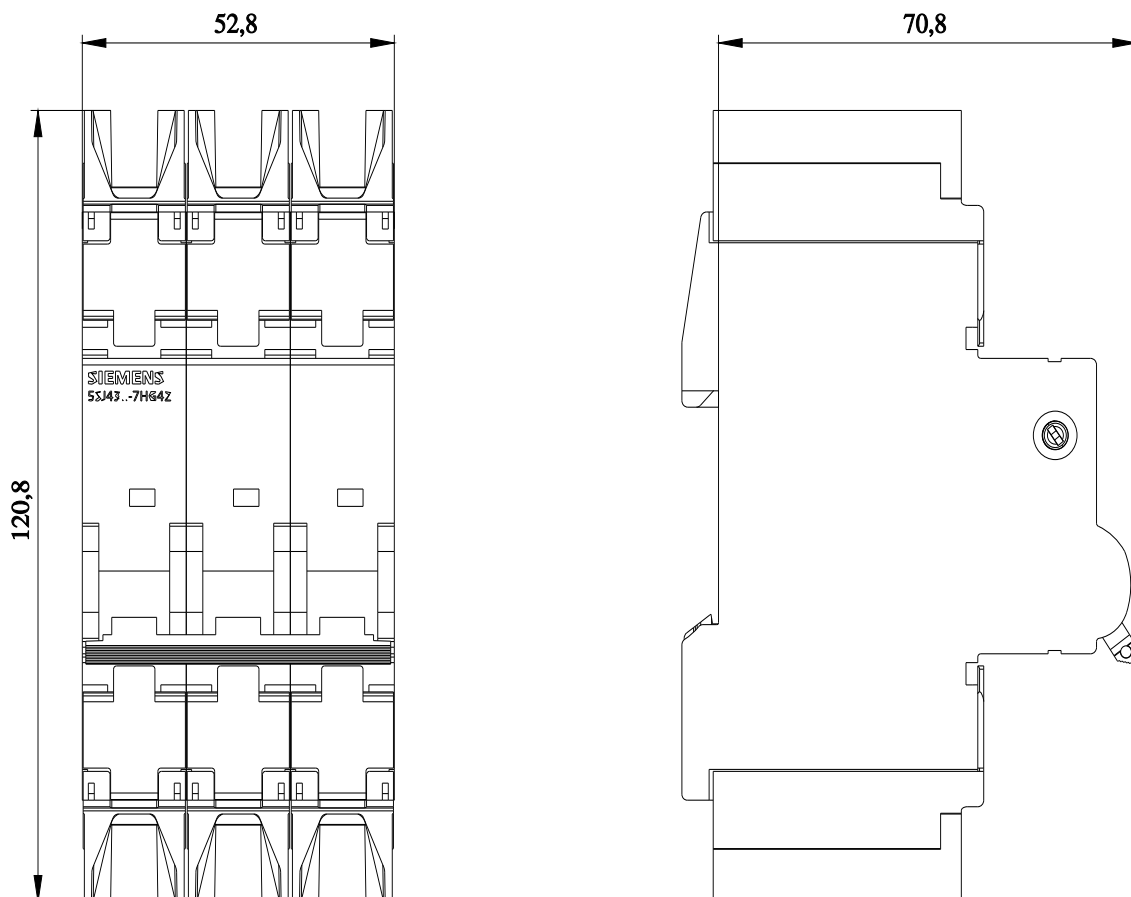
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SJ4310-8HG42](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4310-8HG42)

CAX-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>



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