SIEMENS

Data sheet

5SJ4313-7HG42



Circuit breaker 10kA, 3-pole, C, 13A 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	С
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	1.6 W
Current	
operational current	

 at 30 °C rated value 	13 A	
 at 40 °C rated value 	13 A	
 at 45 °C rated value 	12.6 A	
 at 50 °C rated value 	12.2 A	
 at 55 °C rated value 	11.8 A	
 at 60 °C rated value 	11.4 A	
 at AC rated value 	13 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	Weenamear engineering / industry	
product component	NI-	
tunnel terminals top	No	
tunnel terminals bottom	No	
 combined terminal top combined terminal bottom 	Yes	
	No	
neutral conductor switching product feature	INO	
product feature	Yes	
 halogen-free sealable 	Yes	
sellable silicon-free	Yes	
	Yes	
product extension installable supplementary devices	res	
Product function		
product function note	Terminal tightening torque for Cu, 60/75°C; 3.5Nm/3	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 mm ²	
• 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	499 g	
Environmental conditions		
vibration resistance	50 m/s ² at 25 to 150Hz and 60m/s ² at 35Hz (4sec)	
vibration resistance according to IEC 60068-2-6	± 1 mm at 5 to 25 Hz; 50 m/s ² 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 Conformity
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Confirmation	\land гпг	~ ~
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Declaration of Conformity	Test Certificates	other		
UK CA	<u>Special Test Certific-</u> <u>ate</u>	Environmental Con- firmations	<u>Miscellaneous</u>	<u>Confirmation</u>

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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=5SJ4313-7HG42

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

https://support.industry.siemens.com/cs/ww/en/ps/5SJ4313-7HG42

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

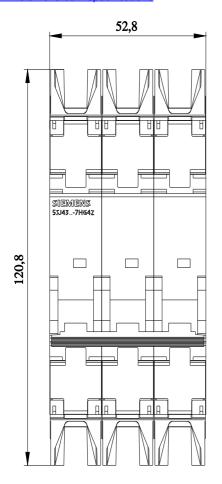
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4313-7HG42

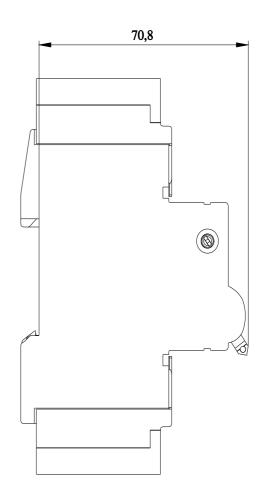
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications





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