SIEMENS

Data sheet

5SJ4306-7HG42



Circuit breaker 10kA, 3-pole, C, 6A 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			
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		
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	2.7 W		
Current			
operational current			
• at 30 °C rated value	6 A		

 at 40 °C rated value 	6 A	
 at 45 °C rated value 	5.8 A	
 at 50 °C rated value 	5.7 A	
 at 55 °C rated value 	5.6 A	
 at 60 °C rated value 	5.4 A	
 at AC rated value 	6 A	
Main circuit		
type of voltage supply at AC according to UL 489 and	480/277	
ČSA C22.2 No. 5-02		
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/	31lh in
•	reminal lightening lorque for Cu, 00/73 C, 3.3Mil/	5110.111
Short circuit	10 44	
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	
	70 mm	
depth	70 mm	
installation depth number of modular width units	3	
fastening method	on standard mounting rail	
mounting position	any	
net weight	498 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	55 10	
• minimum	55 °C	
• maximum	-25 °C	
ambient temperature during operation	max. 95% humidity	
ambient temperature during storage		
• minimum	-40 °C	
• maximum	75 °C	Dealer fi
General Product Approval		Declaration of Conformity
		CE
CCC UL	VDE	EG-Konf.

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Declaration of Conformity	Test Certificates	other		
UK	Special Test Certific- ate	<u>Miscellaneous</u>	Environmental Con- firmations	

Further information

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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=5SJ4306-7HG42

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

https://support.industry.siemens.com/cs/ww/en/ps/5SJ4306-7HG42

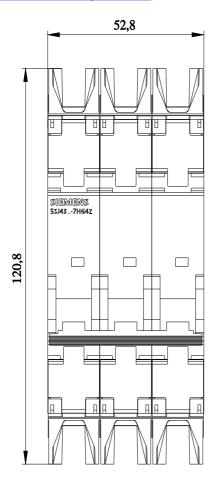
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4306-7HG42

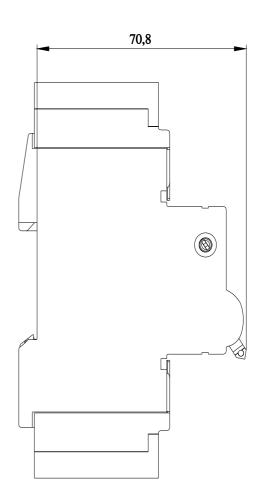
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications





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