SIEMENS

Data sheet 5SJ4301-8HG42



Circuit breaker 10kA, 3-pole, D, 1A 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	D		
mechanical service life (switching cycles) / typical	10 000		
installation environment regarding EMC	Suitable for environment B (immunity to interference not applicable)		
reference code / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750	F		
overvoltage category	3		
degree of pollution	3		
Voltage			
type of voltage / of the operating voltage	AC/DC		
insulation voltage / at AC / rated value	440 V		
Supply voltage			
supply voltage / at AC / rated value	400 V		
operating voltage			
 at AC / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum 	277 V		
at DC / rated value / maximum	60 V		
 at DC / single channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum 	60 V		
 at DC / 2-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum 	125 V		
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] / for rated value of the current / at AC / in hot operating state / per pole	1.5 W		
Current			
operational current			
• at 30 °C / rated value	1 A		

 at 40 °C / rated value 	1 A			
at 45 °C / rated value	0.97 A			
at 50 °C / rated value	0.9 A			
at 55 °C / rated value	0.9 A			
at 60 °C / rated value	0.88 A			
at AC / rated value	1 A			
Main circuit				
type of voltage supply / at AC / acc. to UL 489 and CSA	480/277			
C22.2 No. 5-02				
suitability for operation	Mechanical engineering / ind	dustry		
Product details				
product function / 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				
product function / note	Terminal tightening torque for	or Cu. 60/75°C: 3.5Nm/	31lb.in	
Short circuit		, , , , , , , , , , , , , , , , , , , ,		
breaking capacity short-circuit current (Icn) / at AC / acc. 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	,y			
height	121 mm			
width	54 mm			
	70 mm			
depth installation depth	70 mm			
installation depth number of modular width units	3			
fastening method	on standard mounting rail			
mounting position net weight	any 507 g			
	507 g			
Environmental conditions	F0/-2 . 1 0F 1 . 1 F0 1	00		
vibration resistance	50 m/s ² at 25 to 150Hz and	bum/s ² at 35Hz (4sec)		
ambient temperature / during operation	FF %O			
• minimum	55 °C			
• maximum	-25 °C			
ambient temperature / during storage	40 °C			
• minimum	-40 °C			
• maximum	75 °C			
Certificates				
reference code				
• acc. to DIN EN 61346-2	F			
• acc. to IEC 81346-2	F			
General Product Approval		Declaration of Conformity	Test Certificates	
		-		











Special Test Certificate

other

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=5SJ4301-8HG42

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

https://support.industry.siemens.com/cs/ww/en/ps/5SJ4301-8HG42

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

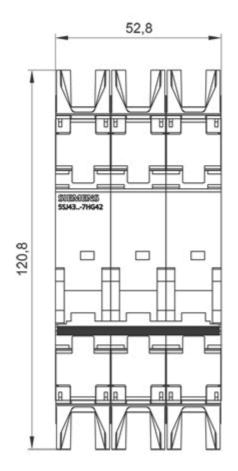
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4301-8HG42

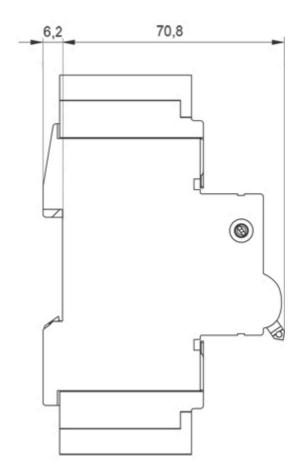
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications





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