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
number of poles / note	3P
tripping characteristic class	D
mechanical service life (switching cycles) / typical	20 000
installation environment regarding EMC	Suitable for environment B (immunity to interference not applicable)
circuit-breaker / Design	5SJ4
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	
insulation voltage / at AC / rated value	440 V

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Supply voltage	
type of voltage	AC/DC
operating current / at AC / rated value	1 A
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 / 1-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
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	
• 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	
Tripping residual / rated value / derated current / at 40 Cel	1 A
Main circuit	
type of voltage supply / at AC / acc. to UL 489 and CSA C22.2 No. 5-02	480/277
suitability for operation	Mechanical engineering / industry
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

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• silicon-free	Yes
product extension / can be installed / supplementary devices	Yes

Product function	
product function / note	Terminal tightening torque for 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	1.5 mm²
• maximum	25 mm²
position / of power supply cord	Any

Mechanical Design	
height	121 mm
width	54 mm
depth	76 mm
installation depth	70 mm
number of width units	3
mounting type	on standard mounting rail
mounting position	any
net weight	507 g

Environmental conditions	
influence of the surrounding temperature	max. 95% humidity
vibration resistance	50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)
vibration resistance / acc. to IEC 60068-2-6	50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)
ambient temperature	
• minimum	-25 °C
• maximum	55 °C
ambient temperature / during storage	
• minimum	-40 °C
• maximum	75 °C

Certificates	
reference code	
• acc. to DIN EN 61346-2	F
• acc. to DIN EN 81346-2	F

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General Product Approval			Declaration of Conformity	Test Certificates
CCC	UL	VDE	EG-Konf.	Special Test Certificate

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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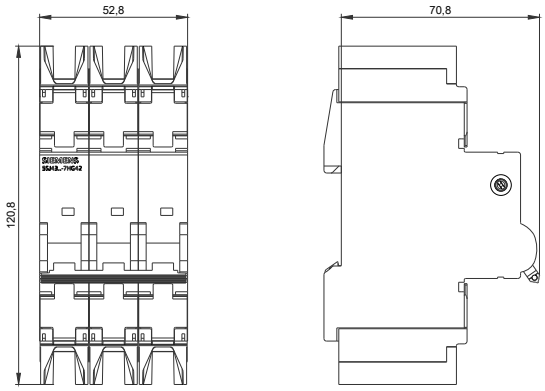

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