SIEMENS

Data sheet 5SJ4310-7HG42

CIRCUIT BREAKER 10KA, 3POLE, C, 10A ACC. TO UL 489 - 480Y/277V



Figure similar

General technical data		
Number of poles		3
Number of poles / Note		3P
Tripping characteristic class		C
Installation environment regarding EMC		Suitable for environment B (immunity to interference not applicable)
circuit-breaker / Design		5SJ4
Mechanical service life (switching cycles) / typical		20 000
Equipment marking / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750		F
Overvoltage category		3

Voltage		
Type of voltage		AC/DC
Insulation voltage / at AC / rated value	V	440

Supply voltage		
Supply voltage / at AC / rated value	V	400
Supply voltage frequency / rated value	Hz	50

Protection class

Changes preserved
© Copyright Siemens AG

Protection class IP		IP20, with connected conductors, IP 40 in the handle range

Switching capacity

Switching capacity current		
• acc. to EN 60898 / rated value	kA	10
• acc. to IEC 60947-2 / rated value	kA	15

Dissipation

Power loss [W]		
• for rated value of the current / at AC / in hot operating state / per pole	W	1.4

Electricity

rated current In / IEC, DIN/VDE / at 40 Cel	A	10
Current / at AC / rated value	A	10

Main circuit

Operating voltage		
• minimum	V	24
• at AC / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum	V	277
• at DC / 1-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum	V	60
• at DC / 2-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum	V	125
• at DC / rated value / maximum	V	60

Product details

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 expansion / can be installed / supplementary devices		Yes

Product function

Product function		
• Note		Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in
• neutral conductor switching		No

Changes preserved
© Copyright Siemens AG

Short circuit		
Breaking capacity short-circuit current (Icn) / at AC / acc. to UL 1077 and CSA C22.2 No.235	kA	10

Number		
Number of test cycles / for environmental testing / acc. to IEC 60068-2-30		6

Connections		
Connectable conductor cross-section / finely stranded / with core end processing		
• minimum	mm²	0.75
• maximum	mm²	25
Position / of power supply cord		Any

Mechanical Design		
Height	mm	121
Width	mm	54
Depth	mm	76
Mounting position		any
Installation depth	mm	70
Number of width units		3
Mounting type		on standard mounting rail

Environmental conditions		
Degree of pollution		3
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	°C	-25
• maximum	°C	55
• during storage / minimum	°C	-40
• during storage / maximum	°C	75

Certificates		
Equipment marking		
• acc. to DIN EN 61346-2		F
• acc. to DIN EN 81346-2		F

General Product Approval

CCC UL VDE

Changes preserved
© Copyright Siemens AG

Further information

Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/lowvoltage/catalogs

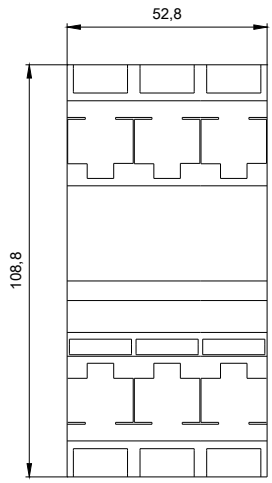
Industry Mall (Online ordering system)
https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/5SJ43107HG42

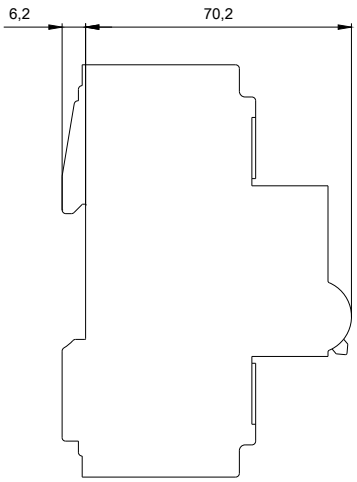
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/5SJ43107HG42/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ43107HG42

CAx-Online-Generator
http://www.siemens.com/cax

Tender specifications
http://ausschreibungstexte.siemens.com/tiplv





last modified: 27.11.2015

Changes preserved
© Copyright Siemens AG