



CIRCUIT BREAKER 10KA, 3POLE, C, 20A 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		
Insulation voltage / with AC / Rated value	V	440
Supply voltage		
Supply voltage frequency / Rated value	Hz	50
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	kA	10
• acc. to IEC 60947-2 / Rated value	kA	15
Dissipation		
Active power loss		

- for rated value of the current / with AC / in hot operating state / per pole

W 2.2

## Electricity

rated current  $I_n$  / IEC, DIN/VDE / at 40 °C

A 20

Current / with AC / Rated value

A 20

## Main circuit

### Operating voltage

- minimum
- with AC / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum
- for DC / 1-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum
- for DC / 2-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum
- for DC / Rated value / maximum

V 24  
V 277  
V 60  
V 125  
V 60

## Product details

Product feature / Touch protection

Yes

### Product component

- Tunnel terminals top
- Tunnel terminals bottom
- combined terminal top
- combined terminal bottom

No  
No  
Yes  
Yes

### Product property

- halogen-free
- sealable
- silicon-free

Yes  
Yes  
Yes

Product expansion / can be installed / supplementary devices

Yes

## Product function

### Product function

- Note
- neutral conductor switching

Terminal tightening torque for Cu, 60/75°C;  
3.5Nm/31lb.in  
No

## Short circuit

Breaking capacity short-circuit current ( $I_{cn}$ ) / with 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	mm <sup>2</sup>	0.75
• maximum	mm <sup>2</sup>	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

Influence of the surrounding temperature		max. 95% humidity
Vibration resistance		50 m/s <sup>2</sup> at 25 to 150Hz and 60m/s <sup>2</sup> at 35Hz (4sec)
Vibration resistance / acc. to IEC 60068-2-6		50 m/s <sup>2</sup> at 25 to 150Hz and 60m/s <sup>2</sup> 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



#### 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/5SJ43207HG42>

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

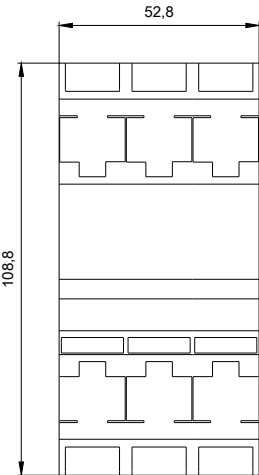
<http://support.automation.siemens.com/WW/view/en/5SJ43207HG42/all>

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

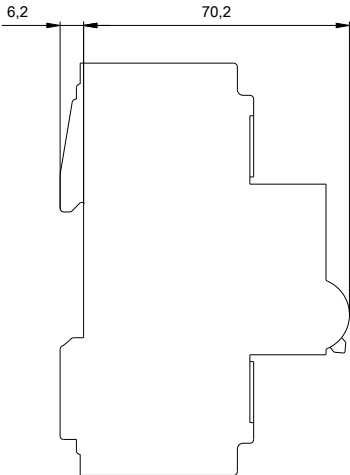
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SJ43207HG42](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ43207HG42)

CAX-Online-Generator

<http://www.siemens.com/cax>



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