

CIRCUIT BREAKER 240V 10KA, 2-POLE, C, 45A,  
D=70MM ACC. TO UL 489



Figure similar

General technical data		
Number of poles		2
Number of poles / Note		2P
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	5.5
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### Electricity

rated current $I_n$ / IEC, DIN/VDE / at 40 Cel	A	45
Current / with AC / Rated value	A	45

### Main circuit

<b>Operating voltage</b>		
• minimum	V	24
• with AC / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum	V	240
• for DC / 1-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum	V	60
• for DC / 2-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum	V	125
• for DC / Rated value / maximum	V	60

### Product details

Product feature / Touch protection		Yes
<b>Product component</b>		
• Tunnel terminals top		No
• Tunnel terminals bottom		No
• combined terminal top		Yes
• combined terminal bottom		Yes
<b>Product property</b>		
• halogen-free		Yes
• sealable		Yes
• silicon-free		Yes
Product expansion / can be installed / supplementary devices		Yes

### Product function

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

### Short circuit

Breaking capacity short-circuit current ( $I_{cn}$ ) / with AC / acc. to UL 1077 and CSA C22.2 No.235	kA	10
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### Number

Number of test cycles / for environmental testing / acc. to IEC 60068-2-30		6
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### 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	90
Width	mm	36
Depth	mm	70
mounting position		any
Installation depth	mm	70
Number of width units		2
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

### Declaration of Conformity



### Test Certificates

[other](#)

### 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/5SJ42457HG41>

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

<http://support.automation.siemens.com/WW/view/en/5SJ42457HG41/all>

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

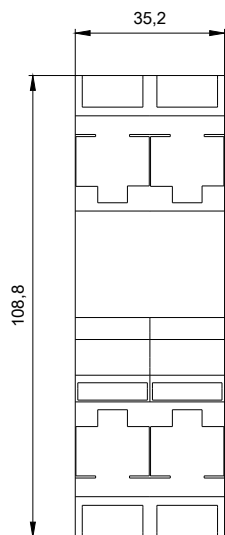
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mfb=5SJ42457HG41](http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=5SJ42457HG41)

**CAX-Online-Generator**

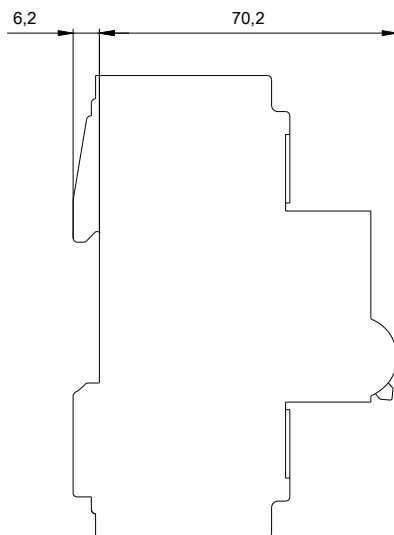
<http://www.siemens.com/cax>

**Tender specifications**

<http://ausschreibungstexte.siemens.com/tiplv>



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