

CIRCUIT BREAKER 240V 10KA, 1-POLE, C, 45A,
D=70MM ACC. TO UL 489



Figure similar

General technical data		
Number of poles		1
Number of poles / Note		1P
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
---	-----

Electricity

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

Main circuit

Operating voltage		
• 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
Product component		
• Tunnel terminals top		No
• Tunnel terminals bottom		No
• combined terminal top		Yes
• combined terminal bottom		Yes
Product property		
• 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

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 ²	0.75
	• maximum	mm ²	25
Position / of power supply cord		Any	

Mechanical Design

Height	mm	110
Width	mm	18
Depth	mm	70
mounting position		any
Installation depth	mm	70
Number of width units		1
Mounting type		on standard mounting rail

Environmental conditions

Influence of the surrounding temperature		max. 95% humidity
Vibration resistance		50 m/s ² at 25 to 150Hz and 60m/s ² at 35Hz (4sec)
Vibration resistance / acc. to IEC 60068-2-6		50 m/s ² at 25 to 150Hz and 60m/s ² 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/5SJ41457HG41>

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

<http://support.automation.siemens.com/WW/view/en/5SJ41457HG41/all>

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

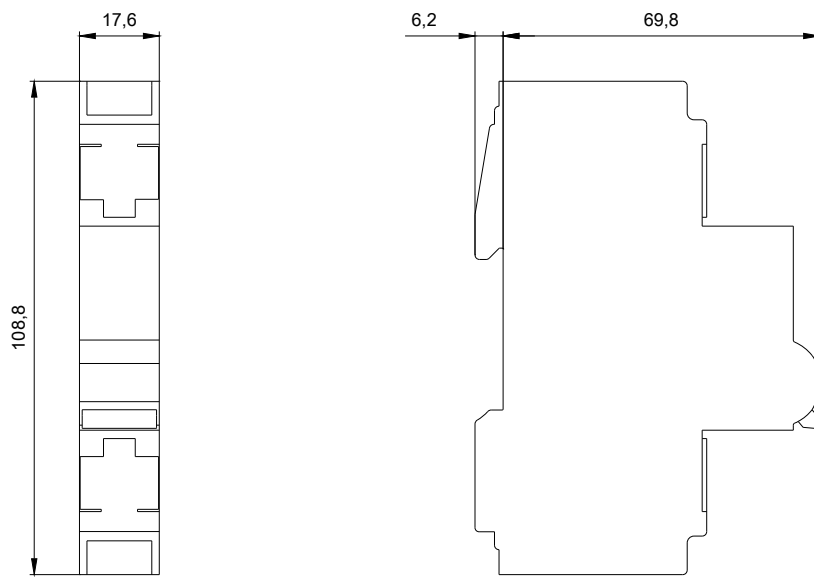
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ41457HG41

CAX-Online-Generator

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

Tender specifications

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



last modified:

11.03.2015