



CIRCUIT BREAKER 230/400V 10KA, 1-POLE,
C, 80A, D=70MM

General technical data:

Type of mounting		Standard mounting rail and screw fixing
mounting position		any
Mounting depth	mm	70
Height	mm	90
Width	mm	27
Depth	mm	76
Current / for AC / rated value	A	80
Tripping characteristic class		C
type of voltage		AC/DC
Number of pitch units for width		1.5
Product feature / sealable		Yes
Degree of pollution		3
Supply voltage		
• for AC / rated value	V	400
• with single-phase operation / with AC / rated value	V	230
• with multi-phase operation / with AC / rated value	V	400
Number of poles		1
Number of poles /note		1P
Switching capacity current		

• in accordance with IEC 60947-2 / rated value	kA	10
• with DC / in accordance with IEC 60947-2 / rated value	kA	15
• acc. to EN 60898 / rated value	kA	10
Breaking capacity short-circuit current (I_{cn})		
• with DC / in accordance with EN 60898-2	kA	10
• with AC / in accordance with UL 1077 and CSA C22.2 No.235	kA	5
Ambient temperature	°C	-25 ... +55
Ambient temperature		
• during storage	°C	-40 ... +75
Position / of power supply cord		Any
Product property / properties for main switches in accordance with EN 60204-1		Yes
Mechanical operating cycles as operating time / typical		20,000
Overvoltage class		3
Product equipment / touch-protection		Yes
Resistance against shock / according to IEC 60068-2-27		150m/s ² at 11ms half-sine
Insulation voltage		
• for AC / rated value	V	440
AWG number		
• as encoded connectable conductor cross-section		14 ... 2
Section de conducteur raccordable		
• solid	mm ²	4 ... 50
• multibrin	mm ²	4 ... 50
• finely stranded		
• with wire end processing	mm ²	1.5 ... 35
Product component		
• tunnel terminals top		Yes
• tunnel terminals bottom		Yes
Tightening torque		
• with screw-type terminals	N·m	2.5 ... 3.5
Tightening torque (lbf·in)		
• with screw connection	lbf·in	22 ... 31
Product feature		
• [not supplied - silicon-free]		Yes
• halogen-free		Yes
Number of test cycles / for environmental testing / in accordance with IEC 60068-2-30		6
Item designation		
• according to DIN EN 61346-2		F

- according to DIN 40719 extendable after IEC 204-2 / according to IEC 750

F

Certificates/approvals:

General Product Approval

Declaration of Conformity



CCC



CEBEC



GOST



UL



VDE



EG-Konf.

Test Certificates

Shipping Approval

other

[Special Test Certificate](#)



GL



LRS

[other](#)

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<http://www.siemens.com/lowvoltage/mall>

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

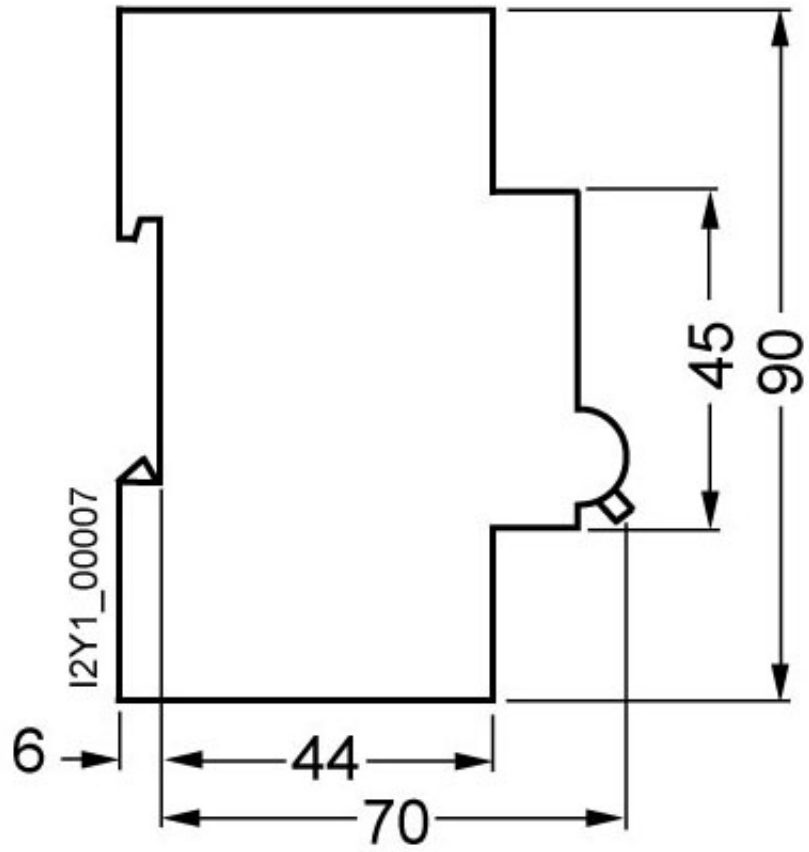
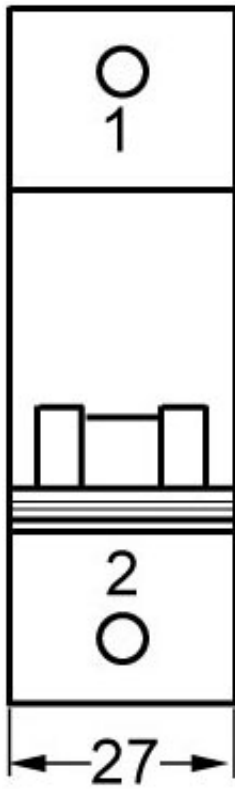
<http://support.automation.siemens.com/WW/view/en/5SP4180-7/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SP4180-7

CAX-Online-Generator

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



last change:

Dec 17, 2012