



CIRCUIT BREAKER 230/400V 10KA, 1-POLE, D, 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		D
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		

<ul style="list-style-type: none"> • in accordance with IEC 60947-2 / rated value 	kA	10
<ul style="list-style-type: none"> • with DC / in accordance with IEC 60947-2 / rated value 	kA	15
<ul style="list-style-type: none"> • acc. to EN 60898 / rated value 	kA	10
Breaking capacity short-circuit current (I_{cn})		
<ul style="list-style-type: none"> • with DC / in accordance with EN 60898-2 	kA	10
<ul style="list-style-type: none"> • with AC / in accordance with UL 1077 and CSA C22.2 No.235 	kA	5
Ambient temperature	°C	-25 ... +55
Ambient temperature		
<ul style="list-style-type: none"> • 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		
<ul style="list-style-type: none"> • for AC / rated value 	V	440
AWG number		
<ul style="list-style-type: none"> • as encoded connectable conductor cross-section 		14 ... 2
Section de conducteur raccordable		
<ul style="list-style-type: none"> • solid 	mm ²	4 ... 50
<ul style="list-style-type: none"> • multibrin 	mm ²	4 ... 50
<ul style="list-style-type: none"> • finely stranded 		
<ul style="list-style-type: none"> • with wire end processing 	mm ²	1.5 ... 35
Product component		
<ul style="list-style-type: none"> • tunnel terminals top 		Yes
<ul style="list-style-type: none"> • tunnel terminals bottom 		Yes
Tightening torque		
<ul style="list-style-type: none"> • with screw-type terminals 	N·m	2.5 ... 3.5
Tightening torque (lbf·in)		
<ul style="list-style-type: none"> • with screw connection 	lbf·in	22 ... 31
Product feature		
<ul style="list-style-type: none"> • [not supplied - silicon-free] 		Yes
<ul style="list-style-type: none"> • halogen-free 		Yes
Number of test cycles / for environmental testing / in accordance with IEC 60068-2-30		6
Item designation		
<ul style="list-style-type: none"> • 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](#)



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,...)

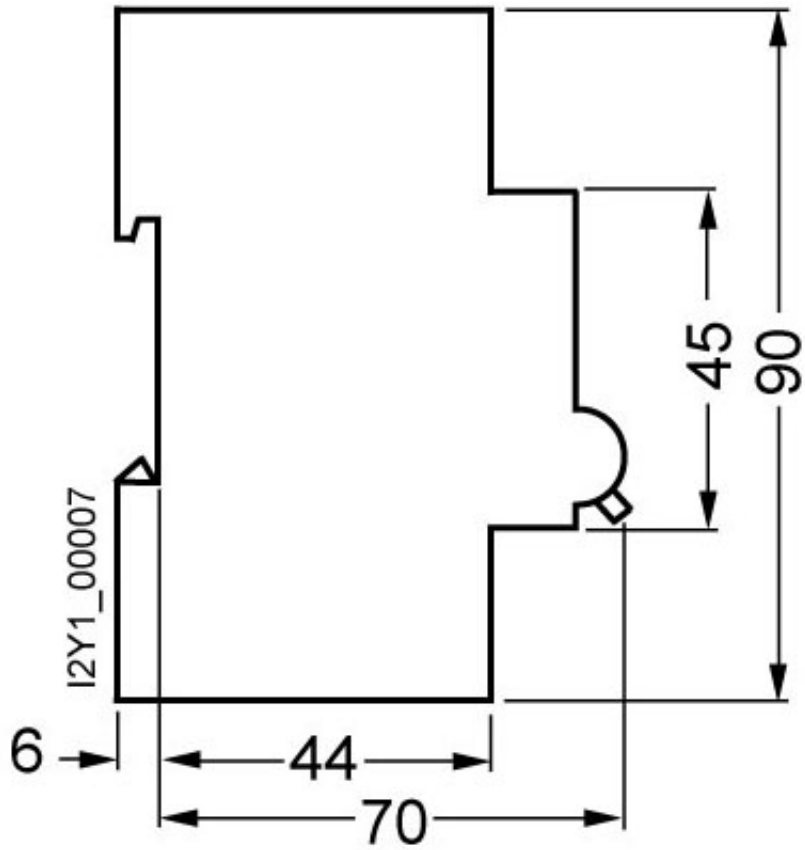
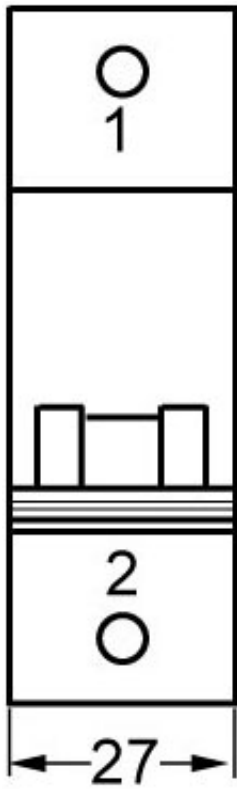
<http://support.automation.siemens.com/WW/view/en/5SP4180-8/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SP4180-8

CAX-Online-Generator

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



last change:

Dec 17, 2012