



Device circuit breaker 1-pole with auxiliary switch NO contact Characteristic F1 6A 230 V AC 50/60 Hz 60 V DC Icn 3 kA AC according to IEC 60934

Model	
product brand name	SENTRON
product designation	Device protection switch
General technical data	
number of poles	1
design of pole	1P+AS
tripping characteristic class	F1
mechanical service life (switching cycles) typical	6 000
overvoltage category	III
degree of pollution	2
Voltage	
type of voltage of the operating voltage	AC/DC
insulation voltage (Ui)	
• at DC rated value	72 V
• with single-phase operation at AC rated value	250 V
Supply voltage	
supply voltage	
• at AC rated value	230 V
• at DC rated value	60 V
value range of the supply voltage frequency	50/60 Hz
operating voltage at DC rated value maximum	72 V
Protection class	
protection class IP	IP20
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	1.84 W
Current	
operational current	
• at 35 °C rated value	5.8 A
• at 40 °C rated value	5.5 A
• at 45 °C rated value	5.34 A
• at 50 °C rated value	5.18 A
• at 55 °C rated value	5.02 A
• at 60 °C rated value	4.85 A
• at AC rated value	6 A
Product details	
product component	
• combined terminal top	No
• combined terminal bottom	No
• neutral conductor switching	No

product feature	
• properties for main switches in accordance with EN 60204-1	Yes
• halogen-free	Yes
• sealable	Yes
• silicon-free	Yes
product extension installable supplementary devices	Yes

Connections

connectable conductor cross-section solid	
• minimum	0.5 mm ²
• maximum	16 mm ²
connectable conductor cross-section stranded	
• minimum	0.5 mm ²
• maximum	16 mm ²
connectable conductor cross-section finely stranded with core end processing	
• minimum	0.5 mm ²
• maximum	10 mm ²
AWG number as coded connectable conductor cross section	
• minimum	20
• maximum	6
tightening torque [lbf·in] with screw-type terminals	
• minimum	17.7 lbf·in
tightening torque with screw-type terminals	
• minimum	2 N·m
• maximum	2.5 N·m
position of power supply cord	Any

Mechanical Design

height	90 mm
width	18 mm
depth	76 mm
installation depth	70 mm
number of modular width units	1
fastening method	standard rail
mounting position	Horizontal/vertical
net weight	107.2 g

Environmental conditions

influence of the surrounding temperature	30 °C @ 85%rF; 60 °C @ 20%rF"
standard	IEC / DIN EN 60934, UL1077
vibration resistance according to IEC 60068-2-6	Yes
ambient temperature during operation	
• minimum	-25 °C
• maximum	60 °C
ambient temperature during storage	
• minimum	-40 °C
• maximum	70 °C
number of test cycles for environmental testing according to IEC 60068-2-30	6

Certificates

reference code	
• according to EN 61346-2	F
• according to IEC 81346-2	F

General Product Approval

Declaration of Conformity



[Confirmation](#)



Test Certificates

other

Further information

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

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

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SY1706-2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY1706-2>

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

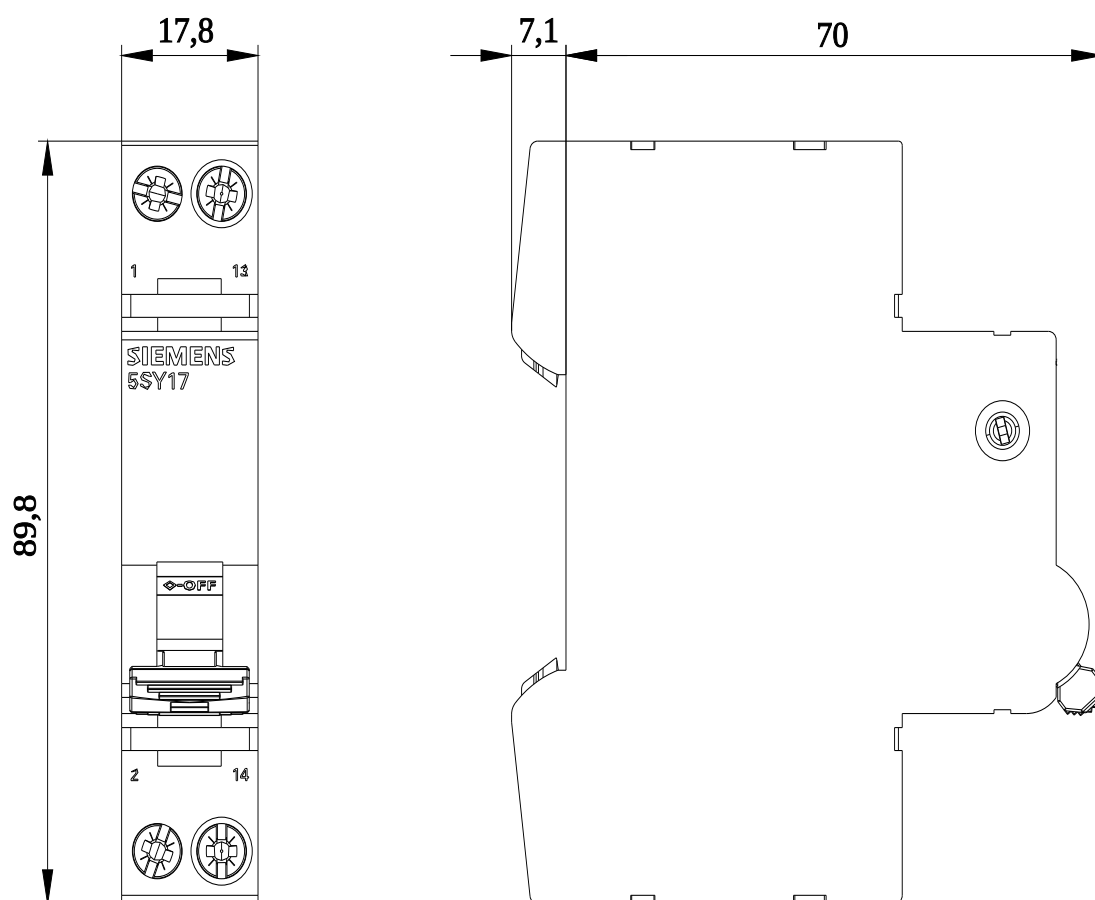
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY1706-2

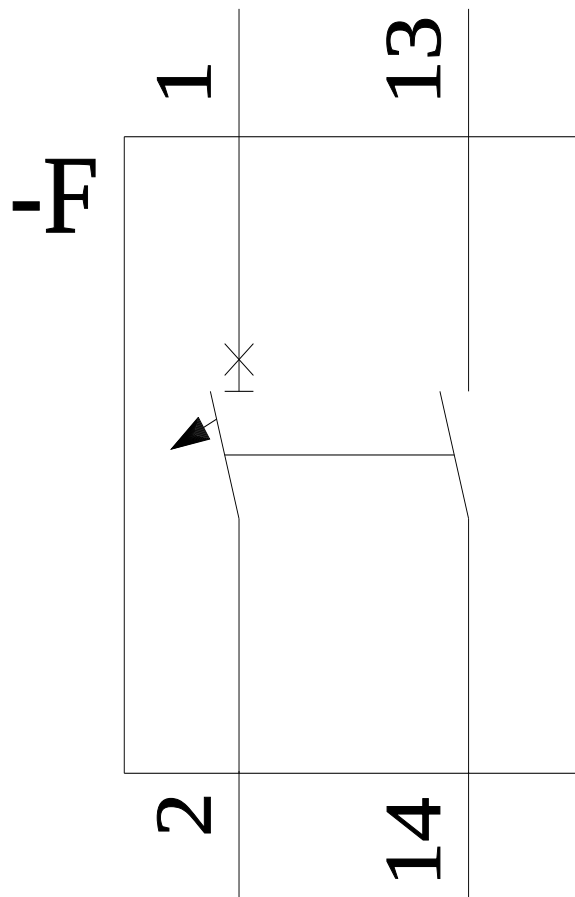
CAX-Online-Generator

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

Tender specifications

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





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