



Miniature circuit breaker 230/400 V 10kA, 1-pole, D, 16A, D=70 mm

Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	1
design of pole	1P
tripping characteristic class	D
mechanical service life (operating cycles) typical	10 000
overvoltage category	III
degree of pollution	3
Voltage	
type of voltage of the operating voltage	AC
insulation voltage (U _i)	
• with single-phase operation at AC rated value	440 V
• with multi-phase operation at AC rated value	440 V
supply voltage with single-phase operation at AC rated value	230 V
Supply voltage	
supply voltage	
• at AC rated value	400 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, with connected conductors
Switching capacity	
switching capacity current	
• at DC according to IEC 60947-2 rated value	15 kA
• according to EN 60898 rated value	10 kA
• according to IEC 60947-2 rated value	20 kA
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	1.6 W
Current	
operational current	
• at 35 °C rated value	16 A
• at 40 °C rated value	15.02 A
• at 45 °C rated value	14.51 A
• at 50 °C rated value	13.98 A
• at 55 °C rated value	13.44 A
• at 60 °C rated value	12.86 A

<ul style="list-style-type: none"> ● at AC rated value 	16 A
suitability for operation	Mechanical engineering / industry
Product details	
product component	
<ul style="list-style-type: none"> ● combined terminal top ● combined terminal bottom ● neutral conductor switching 	Yes Yes No
product feature	
<ul style="list-style-type: none"> ● properties for main switches in accordance with EN 60204-1 ● halogen-free ● sealable ● silicon-free 	Yes Yes Yes Yes
product extension installable supplementary devices	Yes
Short circuit	
short-circuit current breaking capacity (I _{cn})	
<ul style="list-style-type: none"> ● at AC according to UL 1077 and CSA C22.2 No.235 	5 kA
Connections	
connectable conductor cross-section solid	
<ul style="list-style-type: none"> ● minimum ● maximum 	0.75 mm ² 35 mm ²
connectable conductor cross-section stranded	
<ul style="list-style-type: none"> ● minimum ● maximum 	0.75 mm ² 35 mm ²
connectable conductor cross-section finely stranded with core end processing	
<ul style="list-style-type: none"> ● minimum ● maximum 	0.75 mm ² 25 mm ²
AWG number as coded connectable conductor cross section	
<ul style="list-style-type: none"> ● minimum ● maximum 	18 4
tightening torque [lbf-in] with screw-type terminals	
<ul style="list-style-type: none"> ● minimum ● maximum 	22 lbf-in 31 lbf-in
tightening torque with screw-type terminals	
<ul style="list-style-type: none"> ● minimum ● maximum 	2.5 N-m 3.5 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	Quick assembly system
mounting position	any
net weight	151 g
Environmental conditions	
influence of the surrounding temperature standard	max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C
vibration resistance according to IEC 60068-2-6	IEC / EN 60898-1, IEC / EN 60947-2 / UL1077
ambient temperature during operation	±1mm at 5 to 25Hz; 50m/s ² at 25 to 150Hz
<ul style="list-style-type: none"> ● minimum ● maximum 	-40 °C 70 °C
ambient temperature during storage	
<ul style="list-style-type: none"> ● minimum ● maximum 	-40 °C 75 °C
number of test cycles for environmental testing according to IEC 60068-2-30	6
General Product Approval	

[Confirmation](#)



[Miscellaneous](#)

General Product Approval

EMC

Declaration of Conformity

Test Certificates



[Miscellaneous](#)



EG-Konf.

[Miscellaneous](#)

Test Certificates

Marine / Shipping

[Special Test Certificate](#)



LRS



RINA



DNV-GL

other

Railway

[Environmental Confirmations](#)

[Miscellaneous](#)

[Vibration and Shock](#)

[Confirmation](#)

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=5SY4116-8>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY4116-8>

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

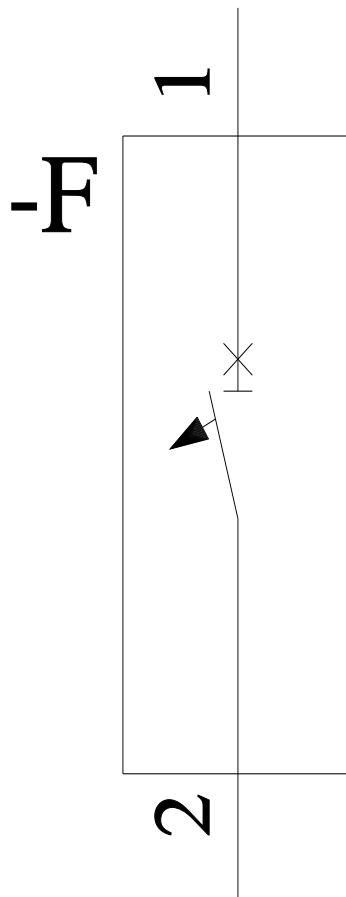
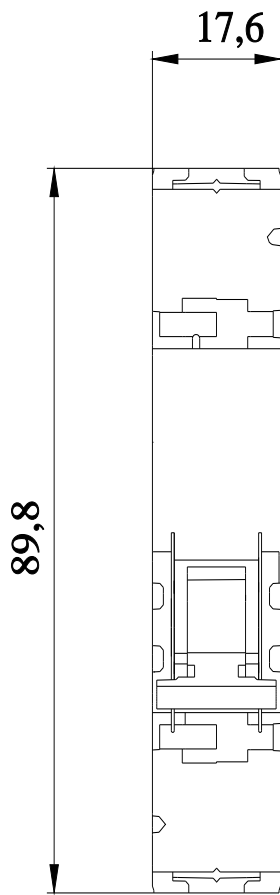
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4116-8

CAx-Online-Generator

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

Tender specifications

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



CB



