



circuit breaker 230/400v 10ka, 1pole, b, 1,6a

Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	1
design of pole	1P
tripping characteristic class	B
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 (Ui)	
• with single-phase operation at AC rated value	440 V
• with multi-phase operation at AC rated value	440 V
operational current	
• at 40 °C rated value	1.52 A
• at 50 °C rated value	1.44 A
• at 55 °C rated value	1.4 A
• at 60 °C rated value	1.36 A
• at AC rated value	1.6 A
Supply voltage	
supply voltage	
• at AC	400 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, with connected conductors
Breaking Capacity	
switching capacity current	
• according to EN 60898 rated value	10 kA
• according to IEC 60947-2 rated value	35 kA
energy limitation class	3
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	1.7 W
suitability for operation	Infrastructure / Industry
Product details	
product feature touch protection	Yes

product component	
• combined terminal top	Yes
• combined terminal bottom	Yes
• neutral conductor switching	No
<b>product feature</b>	
• 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
<b>Product function</b>	
set values setting current (Ii) for I-tripping	4
reference value setting current (Ii) for I-tripping	x I <sub>n</sub>
<b>Connections</b>	
<b>connectable conductor cross-section solid</b>	
• minimum	0.75 mm <sup>2</sup>
• maximum	35 mm <sup>2</sup>
<b>connectable conductor cross-section stranded</b>	
• minimum	0.75 mm <sup>2</sup>
• maximum	35 mm <sup>2</sup>
<b>connectable conductor cross-section finely stranded with core end processing</b>	
• minimum	0.75 mm <sup>2</sup>
• maximum	25 mm <sup>2</sup>
<b>AWG number as coded connectable conductor cross section</b>	
• minimum	18
• maximum	4
<b>tightening torque [lbf-in] with screw-type terminals</b>	
• minimum	22 lbf-in
• maximum	31 lbf-in
<b>tightening torque with screw-type terminals</b>	
• minimum	2.5 N·m
• maximum	3.5 N·m
position of power supply cord	Any
<b>Mechanical Design</b>	
height	90 mm
width	18 mm
depth	76 mm
installation depth	70 mm
fastening method	DIN rail
mounting position	any
net weight	163 g
<b>Environmental conditions</b>	
standard	IEC / EN 60898-1, IEC / EN 60947-2 / UL1077
vibration resistance according to IEC 60068-2-6	±1mm at 5 to 25Hz; 50m/s <sup>2</sup> at 25 to 150Hz
<b>ambient temperature during operation</b>	
• minimum	-40 °C
• maximum	70 °C
<b>ambient temperature during storage</b>	
• minimum	-40 °C
• maximum	75 °C
number of test cycles for environmental testing according to IEC 60068-2-30	6
<b>Environmental footprint</b>	
Environmental Product Declaration (EPD)	Yes
global warming potential [CO <sub>2</sub> eq] total	13.3 kg
global warming potential [CO <sub>2</sub> eq] during manufacturing	0.713 kg
global warming potential [CO <sub>2</sub> eq] during operation	12.7 kg
global warming potential [CO <sub>2</sub> eq] after end of life	-0.062 kg

## Approvals Certificates

### General Product Approval



[Miscellaneous](#)



General Product Approval	Test Certificates	Marine / Shipping	other
<a href="#">Miscellaneous</a>	<a href="#">Miscellaneous</a>	<a href="#">Special Test Certificate</a>	<a href="#">Confirmation</a>
			<a href="#">Miscellaneous</a>

Railway	Environment
<a href="#">Special Test Certificate</a>	<a href="#">Confirmation</a>
	<a href="#">Environmental Confirmations</a>
	<a href="#">Environmental Confirmations</a>

### Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

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=5SY4115-6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY4115-6>

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

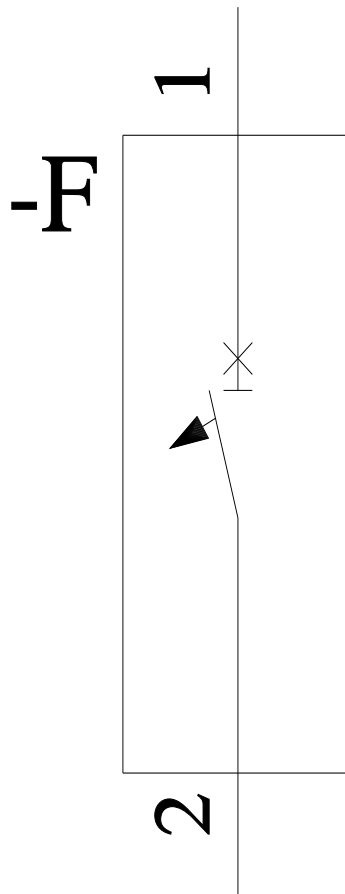
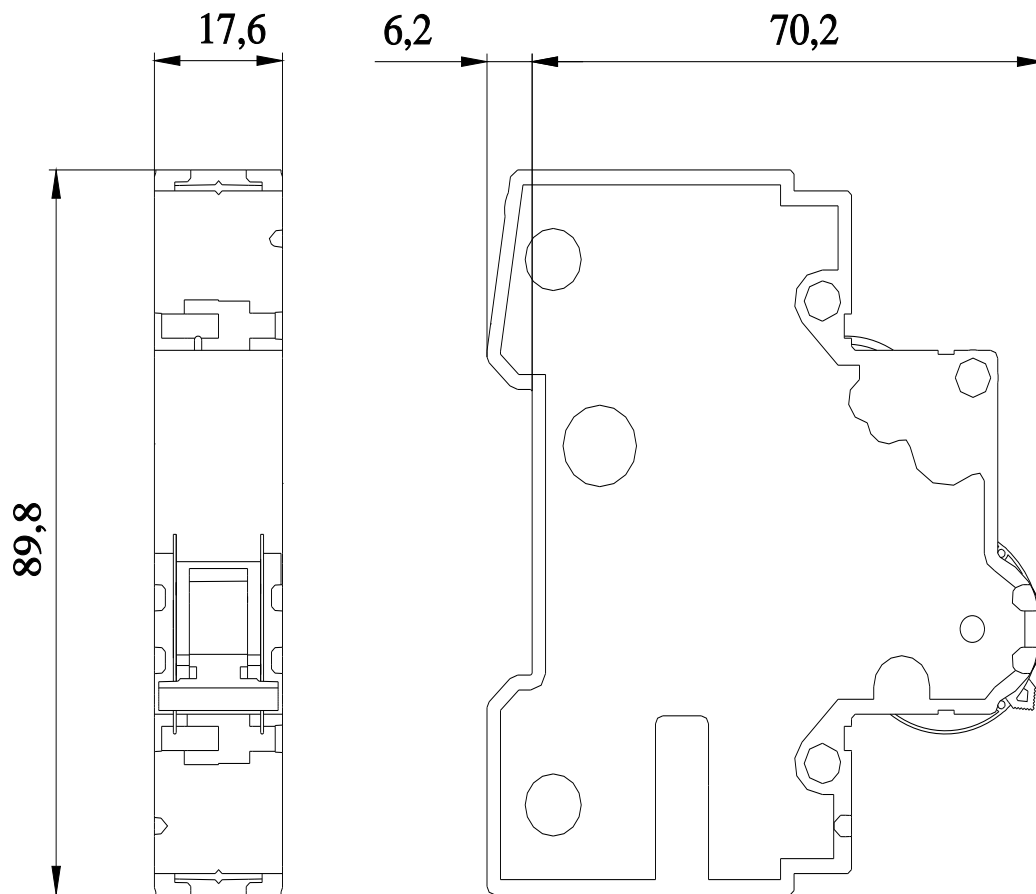
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY4115-6](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4115-6)

CAX-Online-Generator

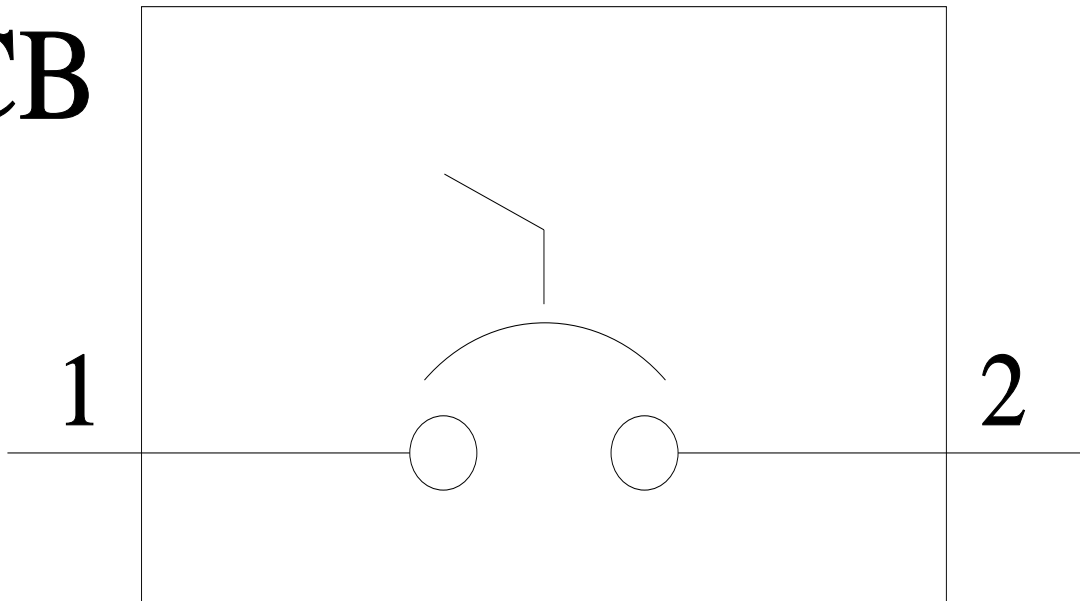
<http://www.siemens.com/cax>

Tender specifications

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



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