



Miniature circuit breaker 230/400 V 6kA, 1-pole, C, 6 A, 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	C
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
supply voltage with single-phase operation at AC rated value	230 V
operational current	
• at 40 °C rated value	5.63 A
• at 50 °C rated value	5.24 A
• at 55 °C rated value	5.04 A
• at AC rated value	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	
• at DC according to IEC 60947-2 rated value	15 kA
• according to EN 60898 rated value	6 kA
• according to IEC 60947-2 rated value	30 kA
energy limitation class	3
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	1.6 W
suitability for operation	Infrastructure / Industry

Product details	
<b>product feature touch protection</b>	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
Product function	
<b>set values setting current (Ii) for I-tripping</b>	8
<b>reference value setting current (Ii) for I-tripping</b>	x In
Short circuit	
<b>short-circuit current breaking capacity (Icn)</b>	
• at AC according to UL 1077 and CSA C22.2 No.235	5 kA
Connections	
<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
Mechanical Design	
<b>height</b>	90 mm
<b>width</b>	18 mm
<b>depth</b>	76 mm
<b>installation depth</b>	70 mm
<b>number of modular width units</b>	1
<b>fastening method</b>	DIN rail
<b>mounting position</b>	any
<b>net weight</b>	150 g
Environmental conditions	
<b>standard</b>	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	-25 °C
• maximum	55 °C
<b>ambient temperature during storage</b>	
• minimum	-40 °C
• maximum	75 °C
<b>number of test cycles for environmental testing according to IEC 60068-2-30</b>	6

**Environmental footprint**

Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 eq] total	8.5 kg
global warming potential [CO2 eq] during manufacturing	0.683 kg
global warming potential [CO2 eq] during operation	7.83 kg
global warming potential [CO2 eq] after end of life	-0.0048 kg

**Approvals Certificates**

**General Product Approval**



**General Product Approval**      **EMV**      **Test Certificates**

[Miscellaneous](#)

[KC](#)



[Miscellaneous](#)



[Miscellaneous](#)

**Marine / Shipping**      **other**



[Confirmation](#)

**other**      **Environment**

[Miscellaneous](#)

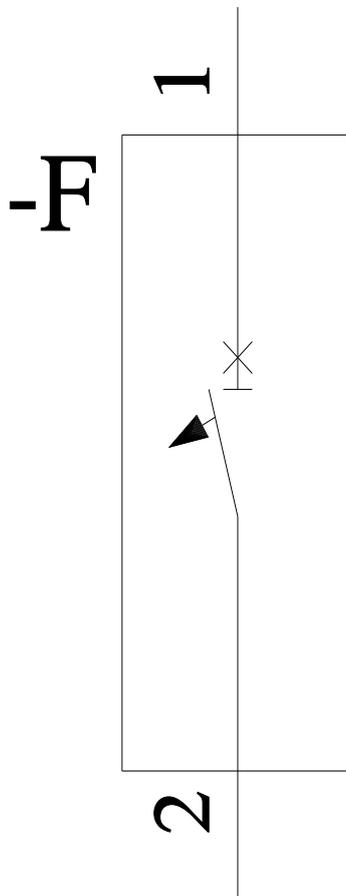
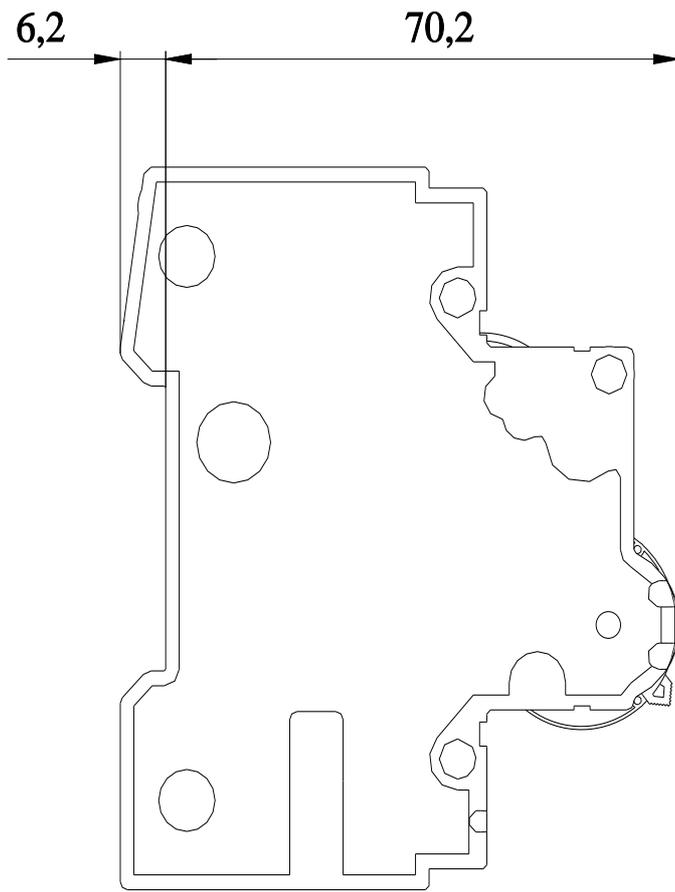
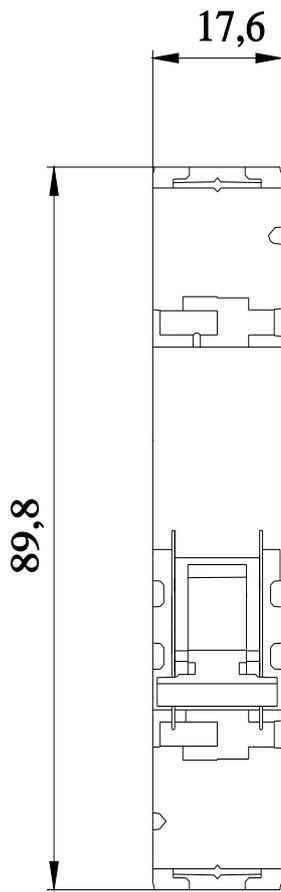


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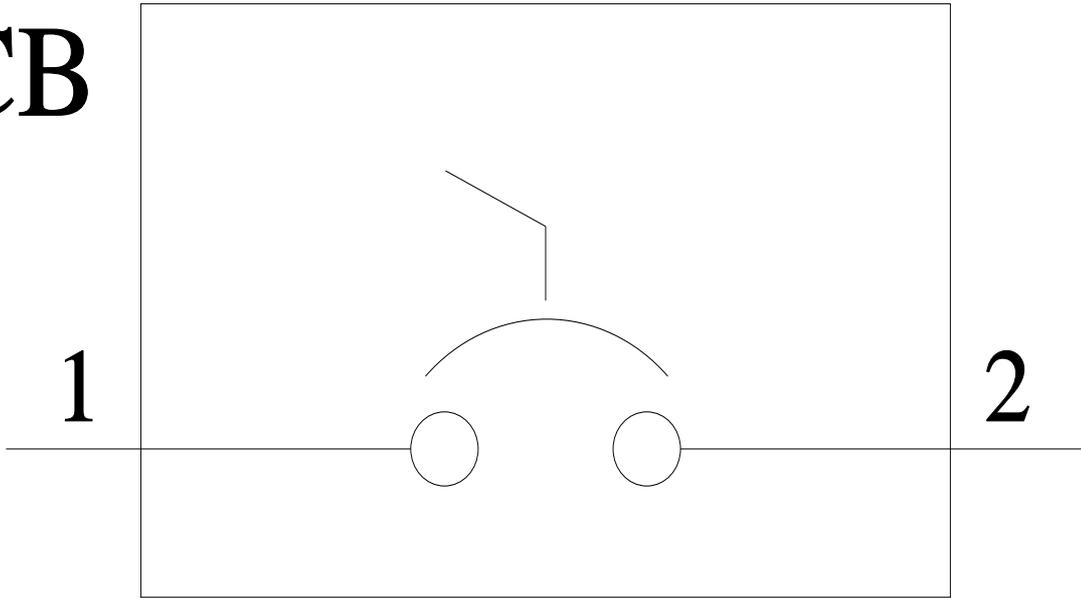
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**Further information**

- 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=5SY6106-7>
- Service&Support (Manuals, Certificates, Characteristics, FAQs,...)  
<https://support.industry.siemens.com/cs/ww/en/ps/5SY6106-7>
- Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)  
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY6106-7](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY6106-7)
- CAx-Online-Generator  
<http://www.siemens.com/cax>
- Tender specifications  
<http://www.siemens.com/specifications>



# CB



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