



Miniature circuit breaker 400 V 10kA, 3-pole, A, 0.5 A, D=70 mm

Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	3
design of pole	3P
tripping characteristic class	A
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	0.48 A
• at 50 °C rated value	0.45 A
• at 55 °C rated value	0.44 A
• at 60 °C rated value	0.42 A
• at AC rated value	0.5 A
Supply voltage	
supply voltage	
• at AC	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
Breaking 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	35 kA
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	1.9 W
suitability for operation	Infrastructure / Industry
Product details	
product component	
• combined terminal top	Yes

<ul style="list-style-type: none"> combined terminal bottom neutral conductor switching 	<p>Yes</p> <p>No</p>
product feature	
<ul style="list-style-type: none"> properties for main switches in accordance with EN 60204-1 halogen-free sealable silicon-free 	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
product extension installable supplementary devices	Yes
Product function	
set values setting current (Ii) for I-tripping	2,5
reference value setting current (Ii) for I-tripping	x In
Short circuit	
short-circuit current breaking capacity (Icn)	
<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 	<p>0.75 mm²</p> <p>35 mm²</p>
connectable conductor cross-section stranded	
<ul style="list-style-type: none"> minimum maximum 	<p>0.75 mm²</p> <p>35 mm²</p>
connectable conductor cross-section finely stranded with core end processing	
<ul style="list-style-type: none"> minimum maximum 	<p>0.75 mm²</p> <p>25 mm²</p>
AWG number as coded connectable conductor cross section	
<ul style="list-style-type: none"> minimum maximum 	<p>18</p> <p>4</p>
tightening torque [lbf-in] with screw-type terminals	
<ul style="list-style-type: none"> minimum maximum 	<p>22 lbf-in</p> <p>31 lbf-in</p>
tightening torque with screw-type terminals	
<ul style="list-style-type: none"> minimum maximum 	<p>2.5 N·m</p> <p>3.5 N·m</p>
position of power supply cord	Any
Mechanical Design	
height	90 mm
width	54 mm
depth	76 mm
installation depth	70 mm
number of modular width units	3
fastening method	Quick assembly system
mounting position	any
net weight	480 g
Environmental conditions	
influence of the surrounding temperature	max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C
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 ² at 25 to 150Hz
ambient temperature during operation	
<ul style="list-style-type: none"> minimum maximum 	<p>-40 °C</p> <p>70 °C</p>
ambient temperature during storage	
<ul style="list-style-type: none"> minimum maximum 	<p>-40 °C</p> <p>75 °C</p>
number of test cycles for environmental testing according to IEC 60068-2-30	6
Environmental footprint	
Environmental Product Declaration (EPD)	Yes
Global Warming Potential [CO2 eq] total	25 kg
Global Warming Potential [CO2 eq] during manufacturing	1.53 kg

Global Warming Potential [CO2 eq] during operation	23.5 kg
Global Warming Potential [CO2 eq] after end of life	0.026 kg

Approvals Certificates

General Product Approval

[Confirmation](#)



[Miscellaneous](#)



[Miscellaneous](#)

Test Certificates	Marine / Shipping	other
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[Special Test Certificate](#)

[Miscellaneous](#)



[Confirmation](#)

[Miscellaneous](#)

Railway	Environment
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[Special Test Certificate](#)

[Confirmation](#)



[Environmental Confirmations](#)

[Environmental Confirmations](#)

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=5SY4305-5>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY4305-5>

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

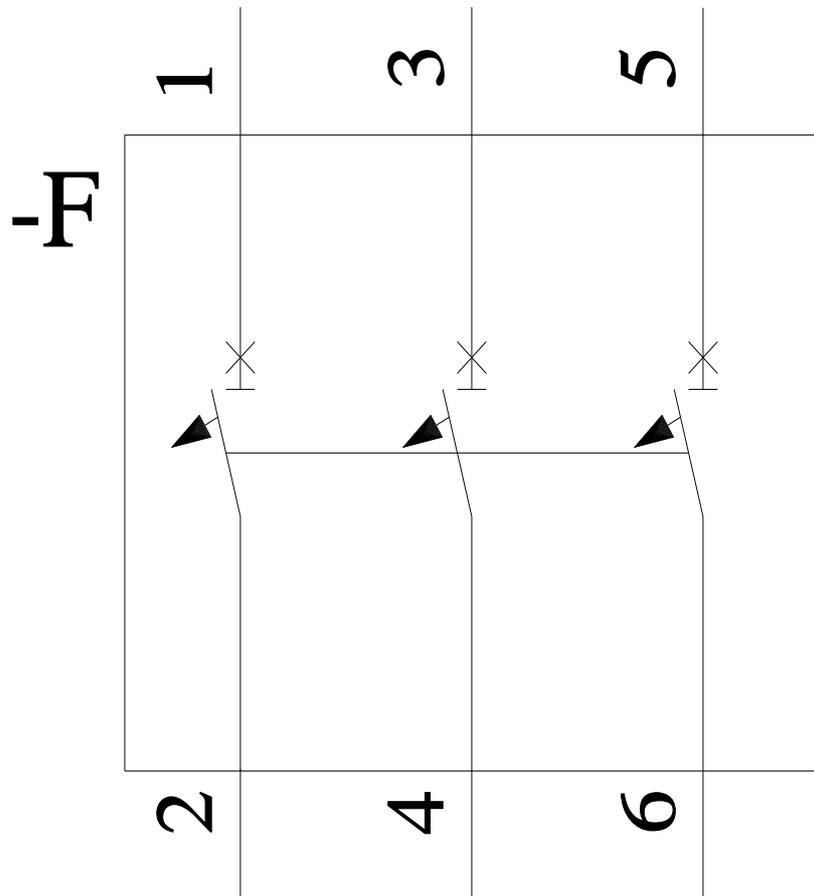
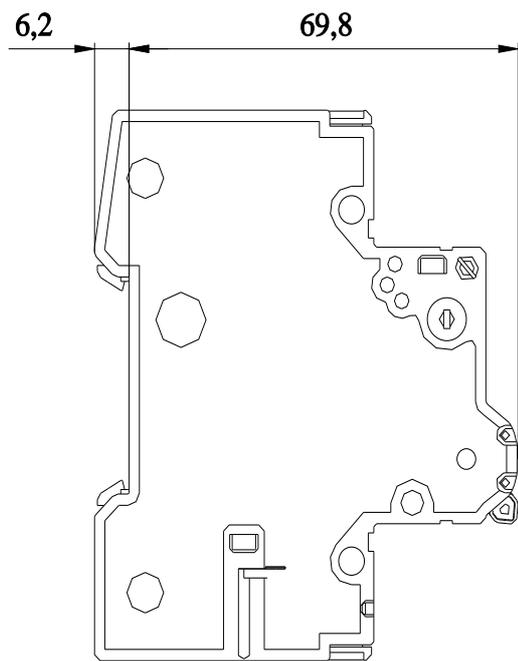
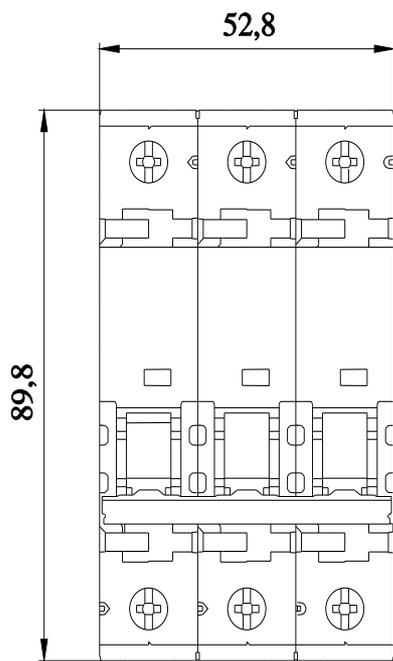
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4305-5

CAx-Online-Generator

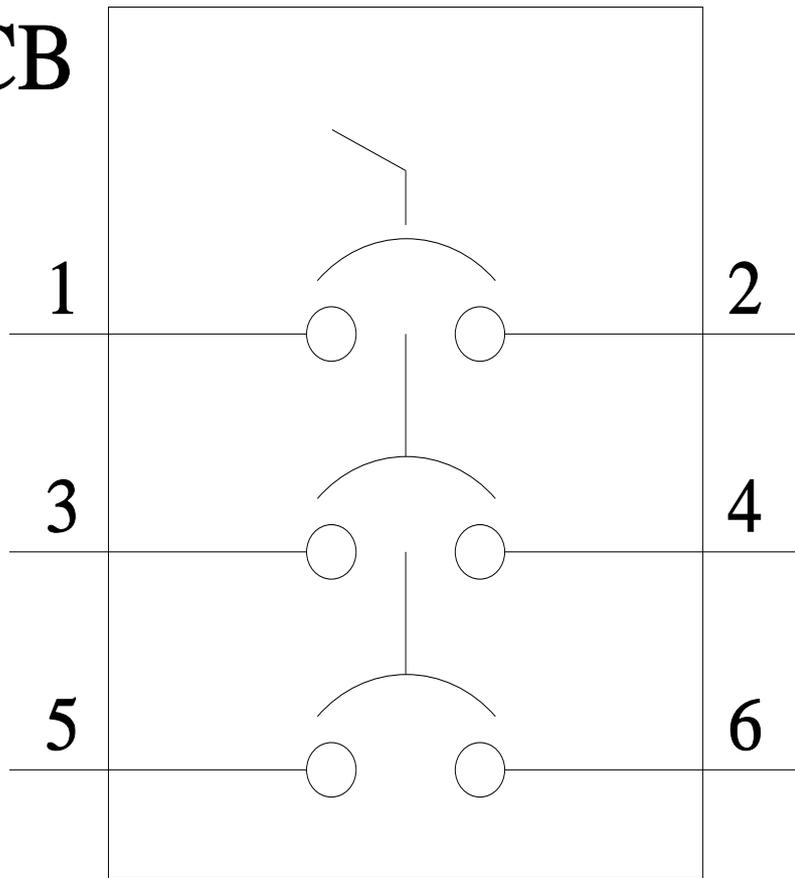
<http://www.siemens.com/cax>

Tender specifications

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



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