



Miniature circuit breaker 400 V 10kA, 2-pole, C, 35 A, D=70 mm

Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	2
design of pole	2P
tripping characteristic class	C
mechanical service life (operating cycles) typical	10 000
overvoltage category	3
degree of pollution	3
Voltage	
type of voltage of the operating voltage	AC
insulation voltage (Ui)	
<ul style="list-style-type: none"> <li>with single-phase operation at AC rated value</li> <li>with multi-phase operation at AC rated value</li> </ul>	440 V
	440 V
<ul style="list-style-type: none"> <li>operational current                             <ul style="list-style-type: none"> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 55 °C rated value</li> <li>at 60 °C rated value</li> </ul> </li> <li>operational current at AC rated value</li> </ul>	33.32 A
	31.57 A
	30.62 A
	29.68 A
	35 A
Supply voltage	
supply voltage	
<ul style="list-style-type: none"> <li>at AC</li> <li>at DC rated value</li> </ul>	400 V
	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	
<ul style="list-style-type: none"> <li>at DC according to IEC 60947-2 rated value</li> <li>according to EN 60898 rated value</li> <li>according to IEC 60947-2 rated value</li> </ul>	15 kA
	10 kA
	15 kA
energy limitation class	3
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	2.6 W

<b>suitability for operation</b>	Infrastructure / Industry
<b>Product details</b>	
<b>product feature touch protection</b>	Yes
<b>product component</b>	
• combined terminal top	Yes
• combined terminal bottom	Yes
• neutral conductor switching	No
<b>product feature properties for main switches in accordance with EN 60204-1</b>	Yes
<b>product feature halogen-free</b>	Yes
<b>product feature sealable</b>	Yes
<b>product feature silicon-free</b>	Yes
<b>product extension installable supplementary devices</b>	Yes
<b>Product function</b>	
<b>set values setting current (Ii) for I-tripping</b>	8
<b>reference value setting current (Ii) for I-tripping</b>	x I <sub>n</sub>
<b>Short circuit</b>	
<b>short-circuit current breaking capacity (I<sub>cn</sub>)</b>	
• at AC according to UL 1077 and CSA C22.2 No.235	5 kA
<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
<b>position of power supply cord</b>	Any
<b>Mechanical Design</b>	
<b>height</b>	90 mm
<b>width</b>	36 mm
<b>depth</b>	76 mm
<b>installation depth</b>	70 mm
<b>number of modular width units</b>	2
<b>fastening method</b>	DIN rail
<b>mounting position</b>	any
<b>Net Weight</b>	317 g
<b>Environmental conditions</b>	
<b>influence of the surrounding temperature</b>	max. 95% RH up to 55°C, max. 55% RH up to 70°C, max. 35% RH up to 75°C
<b>standard</b>	IEC / EN 60898-1, IEC / EN 60947-2 / UL1077
<b>vibration resistance according to IEC 60068-2-6</b>	±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

#### Environmental footprint

Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 eq] total	16.8 kg
global warming potential [CO2 eq] during manufacturing	1.13 kg
global warming potential [CO2 eq] during operation	15.7 kg
global warming potential [CO2 eq] after end of life	-0.00046 kg

#### Approvals Certificates

##### General Product Approval



[Confirmation](#)



[Miscellaneous](#)



##### General Product Approval

##### EMV

##### Test Certificates

##### Maritime application



[Special Test Certificate](#)

[Miscellaneous](#)



##### Maritime application

##### other

##### Railway



[Confirmation](#)

[Special Test Certificate](#)

[Confirmation](#)

#### Environment



[Environmental Confirmations](#)

[Environmental Confirmations](#)

#### Further information

##### Information on the packaging

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

##### Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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

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

##### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SY4235-7>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY4235-7>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY4235-7](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4235-7)

##### CAX-Online-Generator

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

##### Tender specifications

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



# CB



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