



Figure similar

Miniature circuit breaker 400 V 10kA, 3-pole, C, 100 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	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)	
• at AC rated value	440 V
• with multi-phase operation at AC rated value	440 V
operational current	
• at 30 °C rated value	100 A
• at 40 °C rated value	95 A
• at 50 °C rated value	89.5 A
• at 60 °C rated value	84 A
• at AC rated value	100 A
Supply voltage	
supply voltage at AC	400 V
value range of the supply voltage frequency	50/60 Hz
Protection class	
protection class IP	IP20 with connected conductors, IP40 in the area of the handle with distribution cover
Breaking Capacity	
switching capacity current	
• according to EN 60898 rated value	10 kA
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	8 W
suitability for operation	Infrastructure / Industry
Product details	
product feature touch protection	Yes
product component	
• tunnel terminals top	Yes
• tunnel terminals bottom	Yes

<b>product feature</b>	
<ul style="list-style-type: none"> <li>• properties for main switches in accordance with EN 60204-1</li> <li>• halogen-free</li> <li>• sealable</li> <li>• silicon-free</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
product extension installable supplementary devices	Yes

### Connections

<b>connectable conductor cross-section solid</b>	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	<p>25 mm<sup>2</sup></p> <p>50 mm<sup>2</sup></p>
<b>connectable conductor cross-section stranded</b>	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	<p>25 mm<sup>2</sup></p> <p>50 mm<sup>2</sup></p>
<b>connectable conductor cross-section finely stranded with core end processing</b>	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	<p>25 mm<sup>2</sup></p> <p>35 mm<sup>2</sup></p>
<b>AWG number as coded connectable conductor cross section</b>	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	<p>3</p> <p>1</p>
<b>tightening torque [lbf-in] with screw-type terminals</b>	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	<p>22.1 lbf-in</p> <p>31 lbf-in</p>
<b>tightening torque with screw-type terminals</b>	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	<p>2.5 N·m</p> <p>3.5 N·m</p>
<b>position of power supply cord</b>	Any

### Mechanical Design

<b>height</b>	90 mm
<b>width</b>	81 mm
<b>depth</b>	76 mm
<b>installation depth</b>	70 mm
<b>number of modular width units</b>	4.5
<b>fastening method</b>	DIN rail
<b>mounting position</b>	any
<b>net weight</b>	763 g

### Environmental conditions

<b>influence of the surrounding temperature</b>	Max. 95% rel. humidity
shock resistance according to IEC 60068-2-27	150m/s <sup>2</sup> at 11ms half-sine
<b>vibration resistance according to IEC 60068-2-6</b>	50m/s <sup>2</sup> at 25 to 150Hz and 60m/s <sup>2</sup> at 35Hz (4sec)
<b>ambient temperature during storage</b>	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	<p>-40 °C</p> <p>75 °C</p>

### Approvals Certificates

#### General Product Approval



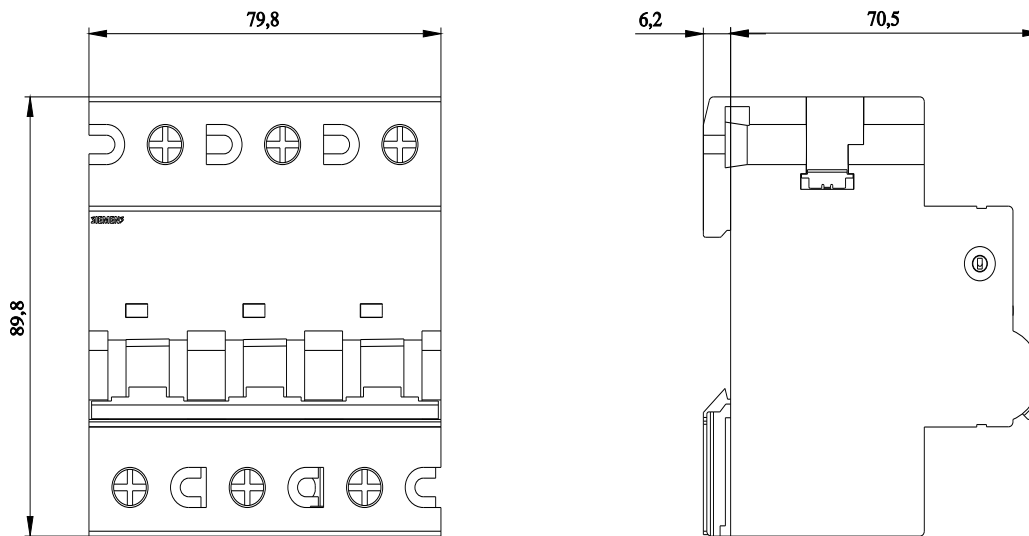
General Product Approval	Maritime application	other	Railway
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5SP4380-6, 5SP4380-7, 5SP4380-8, 5SP4391-6,  
5SP4391-7, 5SP4391-8, 5SP4392-6, 5SP4392-7

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