



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
design of the product	5SP Miniature circuit breakers
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
<b>insulation voltage (Ui)</b>	
• 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 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> </ul>	Yes
<ul style="list-style-type: none"> <li>• halogen-free</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• sealable</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• silicon-free</li> </ul>	Yes
product extension installable supplementary devices	Yes

### Connections

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

### Mechanical Design

height	90 mm
width	81 mm
depth	76 mm
installation depth	70 mm
number of modular width units	4.5
fastening method	DIN rail and screw fixing
mounting position	any
net weight	783 g

### Environmental conditions

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

### Approvals Certificates

#### General Product Approval



[Confirmation](#)



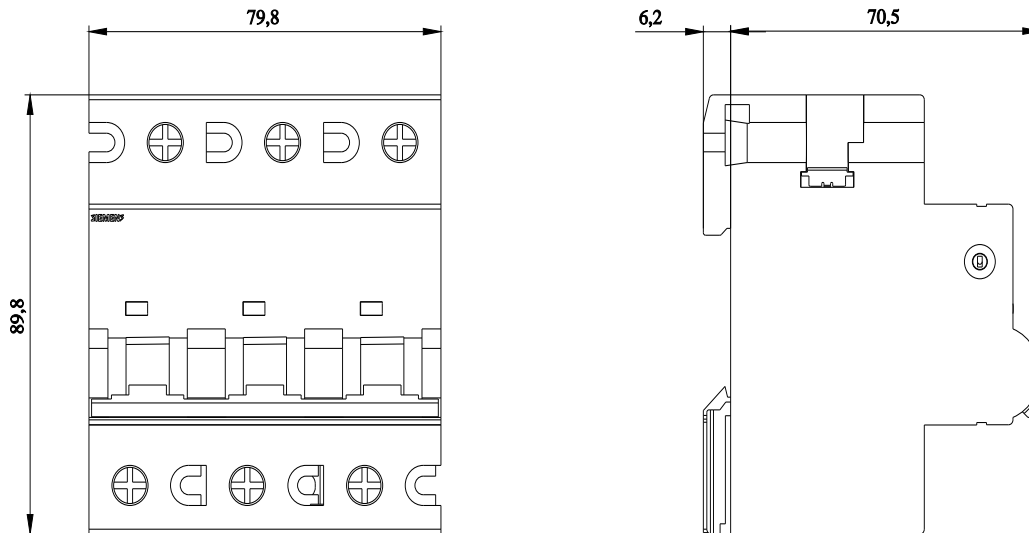
General Product Approval	Marine / Shipping	other
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[Miscellaneous](#)

[Confirmation](#)

Railway	Dangerous Good	Environment
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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=5SP4391-7>**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**<https://support.industry.siemens.com/cs/ww/en/ps/5SP4391-7>**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SP4391-7](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SP4391-7)**CAX-Online-Generator**<http://www.siemens.com/cax>**Tender specifications**<http://www.siemens.com/specifications>

5SP4380-6, 5SP4380-7, 5SP4380-8, 5SP4391-6,  
5SP4391-7, 5SP4391-8, 5SP4392-6, 5SP4392-7

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