

Miniature circuit breaker 400 V 10kA, 4-pole, B, 80 A, D=70 mm



Figure similar

Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	4
design of pole	4P
tripping characteristic class	B
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	80 A
— at 40 °C rated value	76 A
— at 50 °C rated value	71.599 A
— at 60 °C rated value	67.2 A
• operational current at AC rated value	80 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
energy limitation class	3
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	7 W
suitability for operation	Infrastructure / Industry
Product details	
product feature touch protection	Yes

<b>product component</b>	
• tunnel terminals top	Yes
• tunnel terminals bottom	Yes
<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

### Connections

<b>connectable conductor cross-section solid</b>	
• minimum	25 mm <sup>2</sup>
• maximum	50 mm <sup>2</sup>
<b>connectable conductor cross-section stranded</b>	
• minimum	25 mm <sup>2</sup>
• maximum	50 mm <sup>2</sup>
<b>connectable conductor cross-section finely stranded with core end processing</b>	
• minimum	25 mm <sup>2</sup>
• maximum	35 mm <sup>2</sup>
<b>AWG number as coded connectable conductor cross section</b>	
• minimum	3
• maximum	1
<b>tightening torque [lbf-in] with screw-type terminals</b>	
• minimum	22.1 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

### Mechanical Design

<b>height</b>	90 mm
<b>width</b>	108 mm
<b>depth</b>	76 mm
<b>installation depth</b>	70 mm
<b>number of modular width units</b>	6
<b>fastening method</b>	DIN rail
<b>mounting position</b>	any
<b>Net Weight</b>	1.052 kg

### Environmental conditions

<b>influence of the surrounding temperature</b>	Max. 95% rel. humidity
<b>shock resistance according to IEC 60068-2-27</b>	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>	
• minimum	-40 °C
• maximum	75 °C

### Approvals Certificates

<b>Environment</b>	<b>General Product Approval</b>
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firmations](#)

[Environmental Con-  
firmations](#)



<b>General Product Approval</b>	<b>Maritime application</b>
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Maritime application	other	Railway	Dangerous goods
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[Miscellaneous](#)

[Confirmation](#)

[Transport Information](#)

### 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=5SP4480-6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SP4480-6>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SP4480-6](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SP4480-6)

#### CAX-Online-Generator

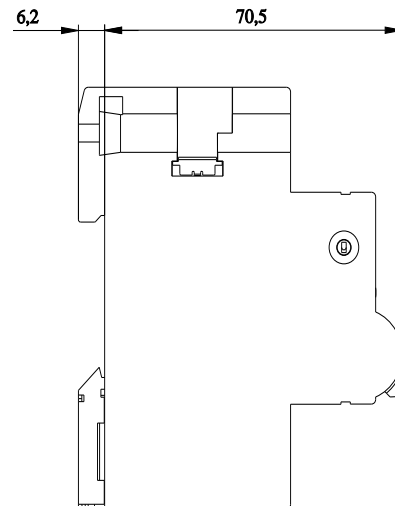
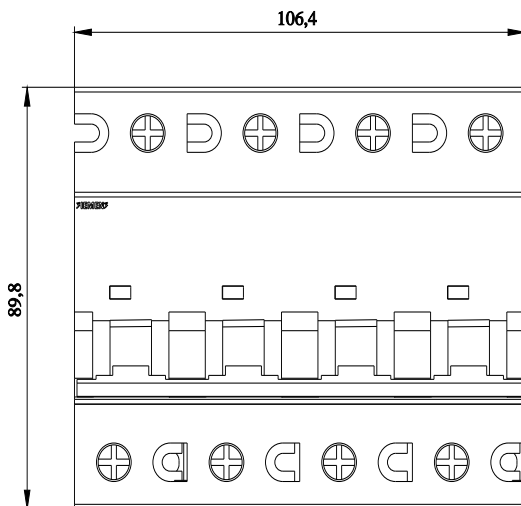
<https://www.siemens.com/cax>

#### Tender specifications

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

#### Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP="HAUPT"></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)



5SP4480-6, 5SP4480-7, 5SP4480-8, 5SP4491-6,  
5SP4491-7, 5SP4491-8, 5SP4492-6, 5SP4492-7



