

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	71.6 A
• at 60 °C rated value	67.2 A
• 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
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
product component	
• tunnel terminals top	Yes
• tunnel terminals bottom	Yes

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

Connections

connectable conductor cross-section solid	
<ul style="list-style-type: none"> • minimum • maximum 	<p>25 mm²</p> <p>50 mm²</p>
connectable conductor cross-section stranded	
<ul style="list-style-type: none"> • minimum • maximum 	<p>25 mm²</p> <p>50 mm²</p>
connectable conductor cross-section finely stranded with core end processing	
<ul style="list-style-type: none"> • minimum • maximum 	<p>25 mm²</p> <p>35 mm²</p>
AWG number as coded connectable conductor cross section	
<ul style="list-style-type: none"> • minimum • maximum 	<p>3</p> <p>1</p>
tightening torque [lbf·in] with screw-type terminals	
<ul style="list-style-type: none"> • minimum • maximum 	<p>22.1 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	108 mm
depth	76 mm
installation depth	70 mm
number of modular width units	6
fastening method	DIN rail and screw fixing
mounting position	any
net weight	1 052 g

Environmental conditions

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

Approvals Certificates

General Product Approval



EG-Konf.

[Confirmation](#)



CCC



UR

General Product Approval	Marine / Shipping	other
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VDE



DNV



LRS

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[Miscellaneous](#)

Railway	Dangerous goods	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=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, ...)

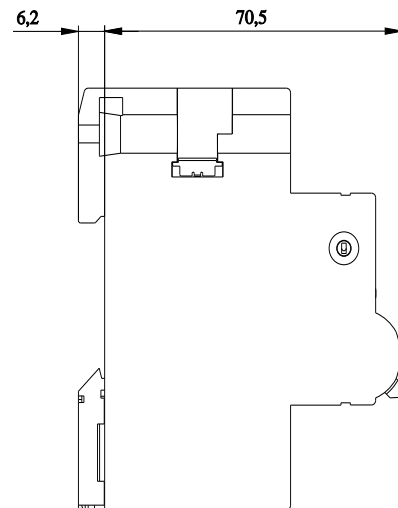
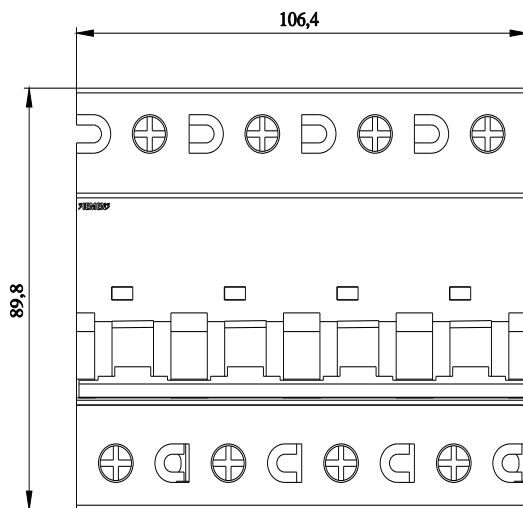
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SP4480-6

CAX-Online-Generator

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

Tender specifications

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



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

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