



Miniature circuit breaker 400 V 10kA, 2-pole, B, 100 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	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	100 A
— at 40 °C rated value	95 A
— at 50 °C rated value	89.5 A
— at 60 °C rated value	84 A
• operational current 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
energy limitation class	3
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
product feature properties for main switches in accordance with EN 60204-1	Yes
product feature halogen-free	Yes
product feature sealable	Yes
product feature silicon-free	Yes
product extension installable supplementary devices	Yes

Connections

connectable conductor cross-section solid	
• minimum	25 mm ²
• maximum	50 mm ²
connectable conductor cross-section stranded	
• minimum	25 mm ²
• maximum	50 mm ²
connectable conductor cross-section finely stranded with core end processing	
• minimum	25 mm ²
• maximum	35 mm ²
AWG number as coded connectable conductor cross section	
• minimum	3
• maximum	1
tightening torque [lbf-in] with screw-type terminals	
• minimum	22.1 lbf-in
• maximum	31 lbf-in
tightening torque with screw-type terminals	
• minimum	2.5 N·m
• maximum	3.5 N·m
position of power supply cord	Any

Mechanical Design

height	90 mm
width	54 mm
depth	76 mm
installation depth	70 mm
number of modular width units	3
fastening method	DIN rail
mounting position	any
Net Weight	521 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	
• minimum	-40 °C
• maximum	75 °C

Approvals Certificates

General Product Approval



General Product Approval	Maritime application	other
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Railway Dangerous goods Environment

[Confirmation](#)

[Transport Information](#)



[Environmental Con-
firmations](#)

[Environmental Con-
firmations](#)

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=5SP4291-6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SP4291-6>

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

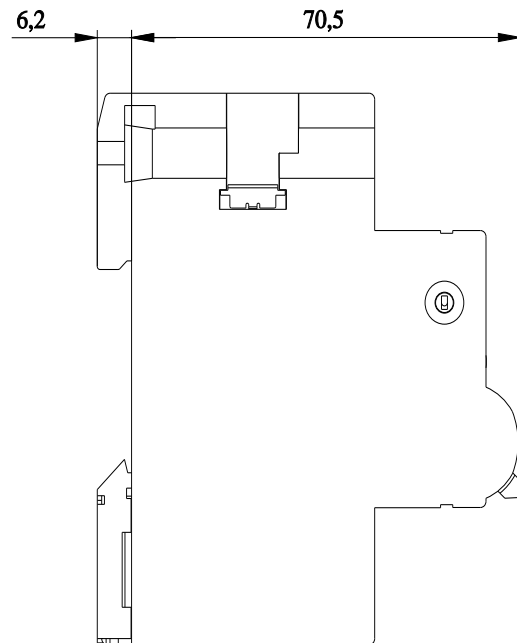
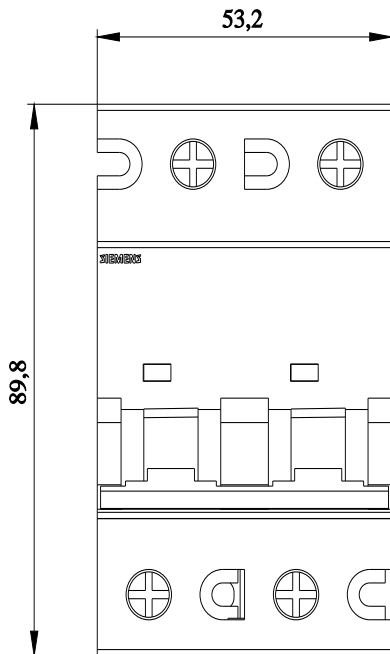
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SP4291-6

CAX-Online-Generator

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

Tender specifications

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



last modified:

7/22/2025

