



Miniature circuit-breaker 440 V DC 10kA, 2-pole, C, 100 A

Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	2
design of pole	2P
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	DC
insulation voltage (Ui)	
• at DC rated value	250 V
• operational current	
— at 40 °C rated value	100 A
— at 50 °C rated value	89.3 A
Protection class	
protection class IP	IP20, with connected conductors
Breaking Capacity	
switching capacity current	
• at DC according to IEC 60947-2 rated value	10 kA
energy limitation class	3
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	10 mm ²

<ul style="list-style-type: none"> • maximum 	50 mm ²
connectable conductor cross-section stranded	
<ul style="list-style-type: none"> • minimum • maximum 	10 mm ² 50 mm ²
connectable conductor cross-section finely stranded with core end processing	
<ul style="list-style-type: none"> • minimum • maximum 	10 mm ² 35 mm ²
AWG number as coded connectable conductor cross section	
<ul style="list-style-type: none"> • minimum • maximum 	6 1
tightening torque [lbf-in] with screw-type terminals	
<ul style="list-style-type: none"> • minimum • maximum 	22.1 lbf-in 31 lbf-in
tightening torque with screw-type terminals	
<ul style="list-style-type: none"> • minimum • maximum 	2.5 N·m 3.5 N·m
position of power supply cord	not arbitrary

Mechanical Design

height	90 mm
width	54 mm
depth	70 mm
installation depth	70 mm
number of modular width units	3
fastening method	DIN rail
mounting position	any
Net Weight	524 g

Environmental conditions

influence of the surrounding temperature	Periodically +55°C, max. 95% 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 	-40 °C 75 °C

Approvals Certificates

Environment	General Product Approval	other
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[Environmental Con-
firmations](#)

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firmations](#)



other	Dangerous goods
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[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?mifb=5SP5291-7CC>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SP5291-7CC>

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

https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SP5291-7CC

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=)

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