



Circuit breaker Universal current 220 V DC 230/400 V AC 10kA, 1-pole, C, 10 A

Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	1
design of pole	1P
tripping characteristic class	C
mechanical service life (operating cycles) typical	10 000
overvoltage category	III
degree of pollution	3
Voltage	
type of voltage of the operating voltage	AC/DC
insulation voltage (Ui)	
• at DC rated value	250 V
• with single-phase operation at AC rated value	440 V
• with multi-phase operation at AC rated value	440 V
supply voltage with single-phase operation at AC rated value	230 V
Supply voltage	
supply voltage	
• at AC rated value	400 V
• at DC rated value	220 V
value range of the supply voltage frequency	50/60 Hz
operating voltage at DC rated value maximum	250 V
Protection class	
protection class IP	IP20, with connected conductors
Switching capacity	
switching capacity current	
• at DC according to IEC 60947-2 rated value	15 kA
• 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	1.1 W
suitability for operation	universal current
Product details	
product component	
• combined terminal top	Yes
• combined terminal bottom	Yes
• neutral conductor switching	No

product feature		
<ul style="list-style-type: none"> • properties for main switches in accordance with EN 60204-1 • halogen-free • sealable • silicon-free 		Yes
product extension installable supplementary devices		Yes
Short circuit		
short-circuit current breaking capacity (Icn)		
<ul style="list-style-type: none"> • at DC according to EN 60898-2 		10 kA
Connections		
connectable conductor cross-section solid		
<ul style="list-style-type: none"> • minimum • maximum 		0.75 mm ² 35 mm ²
connectable conductor cross-section stranded		
<ul style="list-style-type: none"> • minimum • maximum 		0.75 mm ² 35 mm ²
connectable conductor cross-section finely stranded with core end processing		
<ul style="list-style-type: none"> • minimum • maximum 		0.75 mm ² 25 mm ²
AWG number as coded connectable conductor cross section		
<ul style="list-style-type: none"> • minimum • maximum 		18 4
tightening torque [lbf·in] with screw-type terminals		
<ul style="list-style-type: none"> • minimum • maximum 		22 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		AC as required, observe DC polarity
Mechanical Design		
height		90 mm
width		18 mm
depth		76 mm
installation depth		70 mm
number of modular width units		1
fastening method		Quick assembly system
mounting position		any
net weight		171 g
Environmental conditions		
influence of the surrounding temperature		max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C
standard		IEC / EN 60898-2, UL1077
vibration resistance according to IEC 60068-2-6		±1mm at 5 to 25Hz; 50m/s ² at 25 to 150Hz
ambient temperature during operation		
<ul style="list-style-type: none"> • minimum • maximum 		-40 °C 70 °C
ambient temperature during storage		
<ul style="list-style-type: none"> • minimum • maximum 		-40 °C 75 °C
number of test cycles for environmental testing according to IEC 60068-2-30		6
General Product Approval		

[Confirmation](#)



[Miscellaneous](#)



[General Product Approval](#)

[Declaration of Conformity](#)

[Test Certificates](#)

[Marine / Shipping](#)

other	Railway	Dangerous Good	Environment
Confirmation	Miscellaneous	Confirmation	Vibration and Shock

Further information

Siemens has decided to exit the Russian market (see here).

<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=5SY5110-7>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY5110-7>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY5110-7

CAx-Online-Generator

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

Tender specifications

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





