



Miniature Circuit Breaker Measuring, Communication AC 230V 6kA, 1+N pole, C, 10A Please consider Radio approval! List of countries: see Certificates

Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
design of the product	Miniature circuit breaker COM compact
type of measured value detection	completely
General technical data	
design of pole	1P+N
apparent power consumption of the power supply	0.4 VA
tripping characteristic class	C
mechanical service life (operating cycles) typical	10 000
electrical endurance (operating cycles) at AC load in the mean value	7 500
measurable line frequency initial value	45 Hz
measurable line frequency full-scale value	65 Hz
overvoltage category	III
degree of pollution	2
frequency with radio transmission minimum	2 400 MHz
frequency with radio transmission maximum	2 483.5 MHz
status display of the measured data	voltage, current, active power, apparent power, reactive power, active energy, line frequency, power factor, temperature, switching cycles, operating hours, tripping, warnings
Voltage	
type of voltage of the operating voltage	AC
insulation voltage (Ui) at AC rated value	250 V
operational current	<ul style="list-style-type: none"> at 30 °C rated value 10 A at 40 °C rated value 9.26 A at 50 °C rated value 8.02 A at 55 °C rated value 8.45 A at 60 °C rated value 7.56 A at AC rated value 10 A
measurable current at AC	<ul style="list-style-type: none"> initial value 0.04 A full-scale value 33 A
reference current (Iref) 1 at AC rated value	10 A
Supply voltage	
supply voltage	<ul style="list-style-type: none"> at AC rated value 230 V
value range of the supply voltage frequency	50 Hz
operating voltage	<ul style="list-style-type: none"> minimum 195 V

• with single-phase operation at AC maximum	250 V
Protection class	
protection class IP	IP20, with connected conductors
protection class IP	
• on the front	IP40
• rear side	IP20
Breaking Capacity	
switching capacity current	
• according to EN 60898 rated value	6 kA
energy limitation class	3
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	1.3 W
Suitability	
suitability for operation	Residential buildings/infrastructure
suitability for use	
• ammeter	Yes
• reactive power meter	Yes
• frequency meter	Yes
• voltmeter	Yes
• wattmeter	Yes
Product details	
product component	
• combined terminal top	No
• combined terminal bottom	No
• neutral conductor switching	Yes
product feature	
• properties for main switches in accordance with EN 60204-1	No
• halogen-free	Yes
• sealable	Yes
• silicon-free	Yes
product extension installable supplementary devices	Yes
Communication	
guideline via radio-controlled system	2014/53/EU
protocol is supported	Wireless protocol
Fault limits	
standards for error limits	based on IEC61557-12, IEC62053-22, IEC62053-23
reference condition for metering accuracy	according IEC61557-12, IEC62053-22 and IEC62053-23
relative symmetrical measurement uncertainty [%]	
• for measured variable current	0.5 %
• for measured variable voltage	0.5 %
• for measured variable electrical energy	1 %
• for measured variable reactive power	1 %
• for measured variable apparent power	1 %
• for measured variable active power	1 %
Measuring inputs	
measurable supply voltage between (PE)N and L at AC	
• minimum	185 V
• maximum	255 V
measuring category for voltage measurement	CATIII according IEC 61010-2-030
measuring procedure for current measurement	TRMS
measuring procedure for voltage measurement	TRMS
Connections	
connectable conductor cross-section solid	
• minimum	0.75 mm ²
• maximum	16 mm ²
connectable conductor cross-section stranded	
• minimum	0.75 mm ²
• maximum	16 mm ²
connectable conductor cross-section finely stranded with core	

end processing	
• minimum	0.75 mm ²
• maximum	10 mm ²
tightening torque [lbf·in] with screw-type terminals	
• minimum	10.6 lbf·in
• maximum	17.7 lbf·in
tightening torque with screw-type terminals	
• minimum	1.2 N·m
• maximum	2 N·m
position of power supply cord	Any

Mechanical Design

height	90 mm
width	18 mm
depth	76 mm
installation depth	70 mm
number of modular width units	1
fastening method	DIN rail
mounting position	any
net weight	120 g

Environmental conditions

standard	IEC/EN60898-1, GB/T10963.1
• for shocks	IEC 61373
• for environmental sinusoidal oscillation check	IEC 60068-2-6
vibration resistance according to IEC 60068-2-6	Yes
ambient temperature during operation	
• minimum	-25 °C
• maximum	60 °C
ambient temperature during operation	-25...45°C: max. 85%rF. 45...60°C: max. 43%rF
ambient temperature during storage	
• minimum	-40 °C
• maximum	75 °C
number of test cycles for environmental testing according to IEC 60068-2-30	28

Approvals Certificates

General Product Approval

[Confirmation](#)



General Product Approval	Radio Equipment Type Approval Certificate	Test Certificates	other	Railway
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[Miscellaneous](#)

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Environment

[EPD Typ II/III \(with life cycle assessment\)](#)

[Environmental Conformations](#)

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=5SL6010-7MC>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SL6010-7MC>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL6010-7MC

CAX-Online-Generator

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

Tender specifications

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





