



Miniature Circuit Breaker Measuring, Communication AC 230V 6kA, 1+N pole, B, 20A Please consider Radio approval! List of countries: see Certificates

Model	
product brand name	SENTRON
design of the product	Miniature circuit breaker COM compact
General technical data	
apparent power consumption / of the power supply	0.4 V·A
tripping characteristic class	B
mechanical service life (switching cycles) / typical	10 000
electrical endurance (switching 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 (U <sub>i</sub> ) / at AC / rated value	250 V
Supply voltage	
supply voltage	
• at AC / rated value	230 V
operating voltage	
• minimum	195 V
• with single-phase operation / at AC / maximum	253 V
Protection class	
protection class IP	IP20, with connected conductors
protection class IP	
• on the front	IP40
• rear side	IP20
Switching capacity	
switching capacity current	
• acc. 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	3.1 W

Current	
operational current	
<ul style="list-style-type: none"> <li>at 30 °C / rated value</li> <li>at 40 °C / rated value</li> <li>at 45 °C / rated value</li> <li>at 50 °C / rated value</li> <li>at 55 °C / rated value</li> <li>at 60 °C / rated value</li> <li>at AC / rated value</li> </ul>	20 A 18.83 A 18.21 A 16.92 A 17.58 A 16.23 A 20 A
measurable current / at AC	
<ul style="list-style-type: none"> <li>initial value</li> <li>full-scale value</li> </ul>	0.04 A 66 A
reference current (Iref) / 1 / at AC / rated value	20 A
Suitability	
suitability for operation	Residential buildings/infrastructure
suitability for use	
<ul style="list-style-type: none"> <li>ammeter</li> <li>reactive power meter</li> <li>frequency meter</li> <li>voltmeter</li> <li>wattmeter</li> </ul>	Yes Yes Yes Yes Yes
Product details	
product component / neutral conductor switching	Yes
product feature / touch protection	Yes
product component	
<ul style="list-style-type: none"> <li>combined terminal top</li> <li>combined terminal bottom</li> </ul>	No No
product feature	
<ul style="list-style-type: none"> <li>properties for main switches in accordance with EN 60204-1</li> <li>halogen-free</li> <li>sealable</li> <li>silicon-free</li> </ul>	No Yes Yes Yes
product extension / installable / supplementary devices	Yes
Fault limits	
formula for relative total measurement inaccuracy	
<ul style="list-style-type: none"> <li>for measured variable active power</li> <li>for measured variable output factor</li> </ul>	+/- 1 % +/- 0,5 %
Measuring inputs	
measurable supply voltage / between (PE)N and L / at AC	
<ul style="list-style-type: none"> <li>minimum</li> <li>maximum</li> </ul>	50 V 400 V
measuring procedure / for current measurement	TRMS
measuring procedure / for voltage measurement	TRMS
Connections	
connectable conductor cross-section / solid	
<ul style="list-style-type: none"> <li>minimum</li> <li>maximum</li> </ul>	0.75 mm <sup>2</sup> 16 mm <sup>2</sup>
connectable conductor cross-section / stranded	
<ul style="list-style-type: none"> <li>minimum</li> <li>maximum</li> </ul>	0.75 mm <sup>2</sup> 16 mm <sup>2</sup>
connectable conductor cross-section / finely stranded / with core end processing	
<ul style="list-style-type: none"> <li>minimum</li> <li>maximum</li> </ul>	0.75 mm <sup>2</sup> 10 mm <sup>2</sup>
tightening torque [lbf·in] / with screw-type terminals	
<ul style="list-style-type: none"> <li>minimum</li> <li>maximum</li> </ul>	10.6 lbf·in 17.7 lbf·in
tightening torque / with screw-type terminals	
<ul style="list-style-type: none"> <li>minimum</li> </ul>	1.2 N·m

• maximum	2 N·m
position / of power supply cord	Any
<b>Mechanical Design</b>	
height	90 mm
width	18 mm
depth	76 mm
installation depth	70 mm
number of modular width units	1
fastening method	standard rail
mounting position	any
net weight	120 g

<b>Environmental conditions</b>	
standard	
• for environmental sinusoidal oscillation check	IEC 60068-2-6
vibration resistance / acc. to IEC 60068-2-6	Yes
ambient temperature / during operation	
• minimum	-25 °C
• maximum	60 °C
ambient temperature / during storage	
• minimum	-40 °C
• maximum	75 °C
number of test cycles / for environmental testing / acc. to IEC 60068-2-30	28

<b>Certificates</b>	
reference code	
• acc. to DIN EN 61346-2	F
• acc. to IEC 81346-2	F

<b>General Product Approval</b>	<b>Radio Equipment Type Approval Certificate</b>	<b>Declaration of Conformity</b>	<b>other</b>
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[Radio Equipment Type Approval Certificate](#)



[UK Declaration of Conformity](#)

[Miscellaneous](#)

**Further information**

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?mfb=5SL6020-6MC>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SL6020-6MC>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mfb=5SL6020-6MC](http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=5SL6020-6MC)

CAX-Online-Generator

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

Tender specifications

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





