

Product data sheet

Characteristics

A9MEM2110

Acti9, Modular single phase power meter
iEM2110 - 230V - 63A with pulse - MID



Main

Range	Acti9
Family	Acti9 iEM2100
Device short name	iEM2110
Product or component type	Energy meter

Complementary

Poles description	1P + N
Type of measurement	Active and reactive energy Active and reactive power Current Voltage
Metering type	Active, reactive, apparent energy (signed, four quadrant)
Device application	Sub billing Partial meter Multi-tariff
Accuracy class	Class 1 active energy conforming to IEC 62053-21 Class B active energy conforming to EN 50470-3 Class 2 reactive energy conforming to IEC 62053-23
Input type	Direct input
Maximum current [I _{max}]	63 A
[I _b] basic current	5 A
Rated current	63 A
Rated voltage	230 V +/- 20 %
Network frequency	60 Hz 50 Hz
Frequency measurement range	45...65 Hz
Technology type	Electronic
Display type	LCD display
Sampling rate	32 samples/cycle
Measurement current	0.25...63 A
Display digits	8
Maximum value measured	999999.99 kWh
Tariff input	Tariff (2)
Communication port protocol	-
Communication port support	-
Local signalling	Red LED: accuracy checking 1...1000 p/kWh
Digital inputs	1 digital
Digital outputs	2 pulse energy monitoring:
Output voltage	3...33 V AC@90 mA 5...70 V DC@90 mA
Impulse duration	30...100 ms

Supply voltage	96...276 V AC 50 Hz
Maximum power consumption in VA	3 VA at 240 V AC
Maximum power consumption in W	1 W
[Uimp] rated impulse withstand voltage	6 kV 1.2/50 µs
Mounting mode	Clip-on
Mounting support	DIN rail
Connections - terminals	Power circuit: tunnel type terminals (bottom) 1 1.65...33 mm ² cable(s) solid Power circuit: tunnel type terminals (bottom) 1 1.65...33 mm ² cable(s) stranded with cable end Pulse output: screw clamp terminals (top) 1 1...4 mm ² cable(s) solid Pulse output: screw clamp terminals (top) 1 1...2.5 mm ² cable(s) stranded with cable end
Tightening torque	Power circuit: 2 N.m PZ2 screwdriver Pulse output: 0.5 N.m3.5 mm
Wire stripping length	Power circuit: 17 mm Pulse output: 6 mm
Standards	IEC 62052-31 IEC 62053-21 IEC 62053-23 IEC 62052-11
Product certifications	MID conforming to EN 50470-1 MID conforming to EN 50470-3 CE

Environment

IP degree of protection	IP40 front panel: conforming to IEC 60529 IP20 casing:
Overvoltage category	III
Pollution degree	2
Flame retardance	V0 conforming to UL 94
Ambient air temperature for operation	-25...55 °C
Ambient air temperature for storage	-25...70 °C
Operating altitude	< 2000 m
Relative humidity	0...95 % at 55 °C
Colour	White
9 mm pitches	4
Width	36 mm
Height	90 mm
Depth	70 mm
Net weight	0.175 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.2 cm
Package 1 Width	8.0 cm
Package 1 Length	9.8 cm
Package 1 Weight	216.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	29
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	6.719 kg

Offer Sustainability

REACH Regulation	REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Compliant EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	Yes