

Product data sheet

Characteristics

A9MEM2010

modular single phase power meter iEM2010 - 230V - 40A with pulse



Main

Range	Acti9
Family	Acti9 iEM2000
Device short name	iEM2010
Product or component type	Energy meter

Complementary

Poles description	1P + N
Type of measurement	Active power
Device application	Sub billing
Accuracy class	Class 1 active energy conforming to IEC 62053-21 Class B active energy conforming to EN 50470-3
Input type	Direct input
Maximum current [Imax]	40 A
[Ib] basic current	5 A
Rated current	40 A
Rated voltage	230 V +/- 20 %
Network frequency	50 Hz 60 Hz
Frequency measurement range	48...62 Hz
Technology type	Electronic
Display type	Electromechanical
Sampling rate	32 samples/cycle
Measurement current	0.25...40 A
Display digits	7
Maximum value measured	999999.9 kWh
Communication port protocol	-
Communication port support	-
Local signalling	Green indicator light: power ON Yellow indicator light: metering and activity 3200 p/kWh
Digital inputs	0
Digital outputs	1 pulse energy monitoring:
Output voltage	5...35 V DC@20 mA
Impulse duration	120 ms
Maximum power consumption in VA	10 VA at 240 V AC
Mounting mode	Clip-on
Mounting support	DIN rail
Connections - terminals	Power circuit: tunnel type terminals (bottom) 1 10 mm ² cable(s) Remote transfer: tunnel type terminals (top) 1 4 mm ² cable(s)

Tightening torque	Power circuit: 1.2 N.m Remote transfer: 0.8 N.m
Standards	IEC 62053-21 IEC 61557-12 EN 50470-3
Product certifications	CE[RETURN]EAC[RETURN]EAC (metrology)[RETURN]MID-B[RETURN]MID-D

Environment

IP degree of protection	IP40 front panel: conforming to IEC 60529 IP20 casing:
Ambient air temperature for operation	-10...55 °C -20...55 °C
Ambient air temperature for storage	-40...70 °C
Operating altitude	< 2000 m
Relative humidity	0...95 % at 55 °C
Colour	White
9 mm pitches	2
Width	18 mm
Height	96.5 mm
Depth	69 mm
Net weight	0.073 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.3 cm
Package 1 Width	7.3 cm
Package 1 Length	10.0 cm
Package 1 Weight	123.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	38
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	5.015 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Compliant with Exemptions
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Contractual warranty

Warranty	18 months
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