

Product data sheet

Characteristics

A9MEM3175

iEM3175 energy meter - 63 A - LON - 1 digital I
- multi-tariff - MID



Main

Range	Acti 9
Range of product	Acti 9 iEM3000
Device short name	IEM3175
Product or component type	Energy meter

Complementary

Poles description	3P 3P + N 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 1 active energy conforming to IEC 61557-12 Class B active energy conforming to EN 50470-3
Input type	Direct input
[In] rated current	63 A
Rated voltage	100...277 V 173...480 V
Network frequency	50 Hz 60 Hz
Technology type	Electronic
Display type	LCD display
Sampling rate	32 samples/cycle
Measurement current	0...63 A
Maximum value measured	99999999.9 kWh
Tariff input	Tariff (4)
Communication port protocol	LON, insulation 3750 V
Communication port support	Screw terminal block: LonWorks TP/FT-10
Local signalling	Green indicator light: power ON Yellow flashing LED: accuracy checking Alarm: overload
Number of inputs	1 digital 0...5 V/11...40 V 24 V DC
Number of outputs	0
Mounting mode	Clip-on
Mounting support	DIN rail

Connections - terminals	Screw terminals 16 mm ² cable(s)
Overvoltage category	III
Standards	IEC 62053-21 IEC 61010 UL 61010-1 IEC 62053-23 IEC 61036 IEC 61557-12
Product certifications	CE conforming to IEC 61010 (safety) CE conforming to EN 61557-12 (power monitor) CE conforming to IEC 61326-1 (EMC) CULus conforming to UL 61010 (safety) CULus conforming to ANSI C12.20 (sub-meter) EAC (sub-meter) RCM conforming to NMI M 6-1 (sub-meter) UL MID conforming to EN 50470-3 (sub-meter) MID conforming to EN 62052 (sub-meter)

Environment

IP degree of protection	IP40 front panel: conforming to IEC 60529 IP20 body: conforming to IEC 60529
Pollution degree	2
Relative humidity	5...95 % at 50 °C
Ambient air temperature for operation	-25...55 °C - MID -25...60 °C - NMI -25...60 °C - IEC
Ambient air temperature for storage	-40...85 °C
Operating altitude	< 2000 m
Colour	White
9 mm pitches	10
Width	90 mm
Height	95 mm
Depth	69 mm

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	458 g
Package 1 Height	8 cm
Package 1 width	9.5 cm
Package 1 Length	10.5 cm
Unit Type of Package 2	S03
Number of Units in Package 2	30
Package 2 Weight	14.377 kg
Package 2 Height	30 cm
Package 2 width	30 cm
Package 2 Length	40 cm
Unit Type of Package 3	P12
Number of Units in Package 3	480
Package 3 Weight	220.32 kg
Package 3 Height	70 cm
Package 3 width	120 cm
Package 3 Length	80 cm

Offer Sustainability

Sustainable offer status	Green Premium product
EU RoHS Directive	Compliant  EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	 Yes
China RoHS Regulation	 China RoHS Declaration
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