Product datasheet
Characteristics

A9MEM3355
iEM3355 energy meter - 125 A - Modbus - 1 digital I - 1 digital O - multi-tariff



Main

Range	Acti 9
Range of product	Acti 9 iEM3000
Device short name	IEM3355
Product or component type	Energy meter

Complementary

Poles description	3P + N 1P + N 3P
Type of measurement	Active and reactive energy Active and reactive power Current Voltage
Metering type	Active, reactive, apparent energy (signed, four quadrant)
Device application	Multi-tariff Sub billing Partial meter
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	125 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…125 A
Maximum value measured	99999999.9 kWh

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Tariff input	Tariff (4)
Communication port protocol	Modbus RTU at 9.6, 19.2 and 38.4 kbauds even/odd or none, insulation 4000 V
Communication port support	Screw terminal block: RS485
Local signalling	Green indicator light: power ON Yellow flashing LED: accuracy checking alarm: overload Yellow indicator light: communications are active on the Modbus port (Modbus)
Number of inputs	1 digital 0...5 V/11...40 V 24 V DC
Number of outputs	1 digital (static)
Output voltage	5...40 V DC@50 mA
Mounting mode	Clip-on
Mounting support	DIN rail
Connections - terminals	Screw terminals 50 mm² cable(s)
Overvoltage category	III
Standards	IEC 61010 IEC 61036 IEC 61557-12 IEC 62053-23 UL 61010-1 IEC 62053-21
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	14
Width	126 mm
Height	103.2 mm
Depth	69.3 mm

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