A9MEM3455

iEM3455 energy meter - Modbus - 1 DI - 1 DO - multi-tariff - LVCT

Green Premium

Main

Range	Acti 9
Range of product	Acti 9 iEM3000
Device short name	IEM3455
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	Sub billing Multi-tariff Partial meter
Accuracy class	Class 0.5S active energy conforming to IEC 62053-22 Class 0.5S active energy conforming to ANSI C12.20
Input type	Split core current transducer 0.333 V or 1 V
Rated voltage	100…277 V +/- 20 % 173…480 V +/- 20 %
Network frequency	60 Hz 50 Hz
Technology type	Electronic
Display type	LCD display
Sampling rate	32 samples/cycle
Measurement current	1…32767000 mA
Maximum value measured	99999999.9 kWh 99999999 MWh
Tariff input	Tariff (4)
Communication port protocol	Modbus RTU at 9.6, 19.2 and 38.4 kbauds even/odd or none
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	Current circuit: screw terminals 6 mm² cable(s)
	Voltage circuit: screw terminals 2.5 mm² cable(s)
	Input/Output circuit: screw terminals 1.5 mm² cable(s)
	Communication: screw terminals 2.5 mm² cable(s)
Tightening torque	Input/Output circuit: 0.5 N.m Philips screwdriver
	Voltage circuit: 0.5 N.m Philips screwdriver
	Current circuit: 0.8 N.m pozidriv screwdriver
	Communication: 0.5 N.m Philips screwdriver
Wire stripping length	Input/Output circuit: 6 mm
	Voltage circuit: 8 mm
	Current circuit: 8 mm
	Communication: 7 mm
Standards	IEC 62053-21
	IEC 62053-23
	IEC 61557-12
	UL 61010-1
	IEC 61036
	IEC 61010
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

Environment

IP degree of protection	IP40 front panel: conforming to IEC 60529
	IP20 body: conforming to IEC 60529
IK degree of protection	IK08
Pollution degree	2
Relative humidity	5…95 % at 36 °C
Ambient air temperature for operation	-25…70 °C - IEC
Ambient air temperature for storage	-40…85 °C
Operating altitude	< 3000 m
Colour	White
9 mm pitches	10
Width	90 mm
Height	87 mm
Depth	69 mm

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	337 g
Package 1 Height	8.5 cm
Package 1 width	9.6 cm
Package 1 Length	10.5 cm
Unit Type of Package 2	S03
Number of Units in Package 2	30
Package 2 Weight	11.257 kg
Package 2 Height	30 cm
Package 2 width	30 cm
Package 2 Length	40 cm
Unit Type of Package 3	P06
Number of Units in Package 3	240
Package 3 Weight	100.364 kg
Package 3 Height	80 cm
Package 3 width	80 cm
Package 3 Length	60 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