

Product datasheet

Specifications



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

A9MEM3455

EAN Code: 3606480845222

Main

Range	Acti9
Range Of Product	Acti9 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

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

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	BS EN 61326-1 IEC 61326-1 EN 61326-1 BS EN 61010-1:2010 EN 61010-1:2010 IEC 61010-1:2010 UL 61010-1:2010 BS EN 61010-2-30 IEC 61010-2-30 EN 61010-2-30 UL 61010-2-30 ANSI C12.20
Product Certifications	CE conforming to IEC 61010-1 (safety) CE conforming to EN 61557-12 (power monitor) CE conforming to EN/IEC 61326-1 (EMC) UKCA conforming to BS EN 61010-1 (safety) UKCA conforming to BS EN 61557-12 (power monitor) UKCA conforming to BS EN 61326-1 (EMC) CULus conforming to UL 61010-1 (safety) CULus conforming to EN 61010-1 (safety) KZ RCM

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
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Number Of Units In Package 1	1
Package 1 Height	8.5 cm
Package 1 Width	9.6 cm
Package 1 Length	10.5 cm
Package 1 Weight	337 g
Unit Type Of Package 2	S03
Number Of Units In Package 2	30
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	11.257 kg
Unit Type Of Package 3	P06
Number Of Units In Package 3	240
Package 3 Height	80 cm
Package 3 Width	80 cm
Package 3 Length	60 cm
Package 3 Weight	100.364 kg

Contractual warranty

Warranty	18 months
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Sustainability

Green Premium™ label is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product’s sustainability >](#)



Transparency RoHS/REACH

Well-being performance

 Mercury Free

 RoHS Exemption Information [Yes](#)

Certifications & Standards

Reach Regulation	REACH Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information