

# Product data sheet

Specifications



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

A9MEM3455

Product availability: Stock - Normally stocked in distribution facility

Price\*: 695.10 USD

### Main

|                           |               |
|---------------------------|---------------|
| Range                     | Acti9         |
| Range Of Product          | Acti9 iEM3000 |
| Device Short Name         | iEM3455       |
| Product Or Component Type | Energy meter  |

### Complementary

|                             |                                                                                                                                                                           |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Poles Description           | 3P + N<br>1P + N<br>3P                                                                                                                                                    |
| Type Of Measurement         | Active and reactive energy<br>Active and reactive power<br>Current<br>Voltage                                                                                             |
| Metering Type               | Active, reactive, apparent energy (signed, four quadrant)                                                                                                                 |
| Device Application          | Sub billing<br>Multi-tariff<br>Partial meter                                                                                                                              |
| Accuracy Class              | Class 0.5S active energy IEC 62053-22<br>Class 0.5S active energy ANSI C12.20                                                                                             |
| Input Type                  | Split core current transducer 0.333 V or 1 V                                                                                                                              |
| Rated Voltage               | 100...277 V +/- 20 %<br>173...480 V +/- 20 %                                                                                                                              |
| Network Frequency           | 60 Hz<br>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<br>99999999 MWh                                                                                                                                            |
| Tariff Input                | Tariff 4)                                                                                                                                                                 |
| Communication Port Protocol | Modbus RTU 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<br>Yellow flashing LED accuracy checking<br>alarm overload<br>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                                                                                                                                       |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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 0.01 in² (6 mm²)<br>Voltage circuit screw terminals 0.00 in² (2.5 mm²)<br>Input/output circuit screw terminals 0.00 in² (1.5 mm²)<br>Communication screw terminals 0.00 in² (2.5 mm²)                                 |
| Tightening Torque       | Input/output circuit 4.43 lbf.in (0.5 N.m) Philips<br>Voltage circuit 4.43 lbf.in (0.5 N.m) Philips<br>Current circuit 7.08 lbf.in (0.8 N.m) pozidriv<br>Communication 4.43 lbf.in (0.5 N.m) Philips                                                  |
| Wire Stripping Length   | Input/output circuit: 0.24 in (6 mm)<br>Voltage circuit: 0.31 in (8 mm)<br>Current circuit: 0.31 in (8 mm)<br>Communication: 0.28 in (7 mm)                                                                                                           |
| Standards               | BS EN 61326-1<br>IEC 61326-1<br>EN 61326-1<br>BS EN 61010-1:2010<br>EN 61010-1:2010<br>IEC 61010-1:2010<br>UL 61010-1:2010<br>BS EN 61010-2-30<br>IEC 61010-2-30<br>EN 61010-2-30<br>UL 61010-2-30<br>ANSI C12.20                                     |
| Product Certifications  | CE IEC 61010-1 safety)<br>CE EN 61557-12 power monitor)<br>CE EN/IEC 61326-1 EMC)<br>UKCA BS EN 61010-1 safety)<br>UKCA BS EN 61557-12 power monitor)<br>UKCA BS EN 61326-1 EMC)<br>CULus UL 61010-1 safety)<br>CULus EN 61010-1 safety)<br>KZ<br>RCM |

## Environment

|                                       |                                                                                 |
|---------------------------------------|---------------------------------------------------------------------------------|
| Ip Degree Of Protection               | IP40 front panel: conforming to IEC 60529<br>IP20 body: conforming to IEC 60529 |
| Ik Degree Of Protection               | IK08                                                                            |
| Pollution Degree                      | 2                                                                               |
| Relative Humidity                     | 5...95 % 97 °F (36 °C)                                                          |
| Ambient Air Temperature For Operation | -13...158 °F (-25...70 °C) - IEC                                                |
| Ambient Air Temperature For Storage   | -40...185 °F (-40...85 °C)                                                      |
| Operating Altitude                    | < 9842.52 ft (3000 m)                                                           |
| Color                                 | White                                                                           |
| 9 Mm Pitches                          | 10                                                                              |
| Width                                 | 3.54 in (90 mm)                                                                 |
| Height                                | 3.43 in (87 mm)                                                                 |
| Depth                                 | 2.72 in (69 mm)                                                                 |

## Ordering and shipping details

|          |              |
|----------|--------------|
| Category | US10PL109786 |
|----------|--------------|

|                   |               |
|-------------------|---------------|
| Discount Schedule | 0PL1          |
| Gtin              | 3606480845222 |
| Returnability     | Yes           |
| Country Of Origin | US            |

## Packing Units

|                              |                            |
|------------------------------|----------------------------|
| Unit Type Of Package 1       | PCE                        |
| Number Of Units In Package 1 | 1                          |
| Package 1 Height             | 3.35 in (8.5 cm)           |
| Package 1 Width              | 3.78 in (9.6 cm)           |
| Package 1 Length             | 4.13 in (10.5 cm)          |
| Package 1 Weight             | 11.89 oz (337 g)           |
| Unit Type Of Package 2       | S03                        |
| Number Of Units In Package 2 | 30                         |
| Package 2 Height             | 11.81 in (30 cm)           |
| Package 2 Width              | 11.81 in (30 cm)           |
| Package 2 Length             | 15.75 in (40 cm)           |
| Package 2 Weight             | 24.82 lb(US) (11.257 kg)   |
| Unit Type Of Package 3       | P06                        |
| Number Of Units In Package 3 | 240                        |
| Package 3 Height             | 31.50 in (80 cm)           |
| Package 3 Width              | 31.50 in (80 cm)           |
| Package 3 Length             | 23.62 in (60 cm)           |
| Package 3 Weight             | 221.26 lb(US) (100.364 kg) |

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-CO<sub>2</sub> products.

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

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



Transparency   RoHS/REACH

Well-being performance

 Mercury Free

 RoHS Exemption Information   [Yes](#)

Certifications & Standards

|                           |                                                                                                                              |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Reach Regulation          | <a href="#">REACH Declaration</a>                                                                                            |
| Eu Rohs Directive         | Compliant with Exemptions                                                                                                    |
| China Rohs Regulation     | <a href="#">China RoHS declaration</a>                                                                                       |
| Environmental Disclosure  | <a href="#">Product Environmental Profile</a>                                                                                |
| Weee                      | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |
| Circularity Profile       | <a href="#">End of Life Information</a>                                                                                      |
| California Proposition 65 | WARNING: Cancer and Reproductive Harm - <a href="#">www.P65Warnings.ca.gov</a>                                               |