

# Product data sheet

Specifications



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

A9MEM3355

### Main

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                     | Acti9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| range of product          | Acti9 iEM3000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Product or component type | Energy meter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Device short name         | iEM3355                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Market segment            | Buildings small building cost management: billing: main incomer<br>Buildings small building cost management: billing: sub feeder<br>Buildings small building cost management: billing: panelboard<br>Buildings medium building cost management: billing: main incomer<br>Buildings medium building cost management: billing: sub feeder<br>Buildings medium building cost management: billing: panelboard<br>Buildings large building cost management: billing: main incomer<br>Buildings large building cost management: billing: sub feeder<br>Buildings large building cost management: billing: panelboard<br>Buildings multi-site cost management: billing: main incomer<br>Buildings multi-site cost management: billing: sub feeder<br>Buildings multi-site cost management: billing: panelboard<br>Data center cost management: billing<br>Healthcare cost management: billing<br>Industry cost management: billing<br>Buildings small building cost management: cost allocation: main incomer<br>Buildings small building cost management: cost allocation: sub feeder<br>Buildings small building cost management: cost allocation: panelboard<br>Buildings medium building cost management: cost allocation: main incomer<br>Buildings medium building cost management: cost allocation: sub feeder<br>Buildings medium building cost management: cost allocation: panelboard<br>Buildings large building cost management: cost allocation: main incomer<br>Buildings large building cost management: cost allocation: sub feeder<br>Buildings large building cost management: cost allocation: panelboard<br>Buildings multi-site cost management: cost allocation: main incomer<br>Buildings multi-site cost management: cost allocation: sub feeder<br>Buildings multi-site cost management: cost allocation: panelboard<br>Data center cost management: cost allocation<br>Healthcare cost management: cost allocation<br>Industry cost management: cost allocation |

### 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  | Multi-tariff<br>Sub billing<br>Partial meter                                                                                                           |
| Accuracy class      | Class 1 active energy conforming to IEC 62053-21<br>Class 1 active energy conforming to IEC 61557-12<br>Class B active energy conforming to EN 50470-3 |

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

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| input type                  | Direct connection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| [In] rated current          | 125 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Rated voltage               | 100...277 V<br>173...480 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Network frequency           | 50 Hz<br>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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 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<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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 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                   | BS EN 61557-12:2021<br>IEC 61557-12:2021<br>EN 61557-12:2021<br>BS EN 61326-1<br>IEC 61326-1<br>EN 61326-1<br>BS EN 62052-11:2020<br>IEC 62052-11:2020<br>EN 62052-11:2020<br>BS EN 62053-21<br>IEC 62053-21<br>EN 62053-21<br>BS EN 62052-23<br>IEC 62053-23:2020<br>EN 62052-23<br>BS EN 62052-31:2015<br>IEC 62052-31:2015<br>EN 62052-31:2015<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>BS EN 50470-3<br>EN 50470-3<br>BS EN 50470-1<br>EN 50470-1<br>ANSI C12.16 |

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product certifications | CE conforming to IEC 61010-1 (safety)<br>CE conforming to EN 61557-12 (power monitor)<br>CE conforming to EN/IEC 61326-1 (EMC)<br>UKCA conforming to BS EN 61010-1 (safety)<br>UKCA conforming to BS EN 61557-12 (power monitor)<br>UKCA conforming to BS EN 61326-1 (EMC)<br>CULus conforming to UL 61010-1 (safety)<br>CULus conforming to EN 61010-1 (safety)<br>EAC conforming to EN 50470-3 (sub-meter)<br>RCM conforming to EN 62052 (sub-meter)<br>KZ conforming to EN 50470-3 (sub-meter)<br>METAS conforming to EN 50470-1 (sub-meter)<br>MID conforming to EN 50470-3 (sub-meter)<br>MID conforming to EN 50470-1 (sub-meter)<br>NMI conforming to NMI M 6-1 |
| Compatibility code     | IEM3355                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## Environment

|                                       |                                                                                 |
|---------------------------------------|---------------------------------------------------------------------------------|
| IP degree of protection               | IP40 front panel: conforming to IEC 60529<br>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<br>-25...70 °C - IEC<br>-25...60 °C - IEC                     |
| Ambient air temperature for storage   | -40...85 °C                                                                     |
| Operating altitude                    | < 3000 m                                                                        |
| Colour                                | White                                                                           |
| 9 mm pitches                          | 14                                                                              |
| Width                                 | 126 mm                                                                          |
| Height                                | 103.2 mm                                                                        |
| Depth                                 | 69.3 mm                                                                         |

## Packing Units

|                              |            |
|------------------------------|------------|
| Unit Type of Package 1       | PCE        |
| Number of Units in Package 1 | 1          |
| Package 1 Height             | 8.500 cm   |
| Package 1 Width              | 11.300 cm  |
| Package 1 Length             | 13.100 cm  |
| Package 1 Weight             | 698.000 g  |
| Unit Type of Package 2       | S03        |
| Number of Units in Package 2 | 16         |
| Package 2 Height             | 30.000 cm  |
| Package 2 Width              | 30.000 cm  |
| Package 2 Length             | 40.000 cm  |
| Package 2 Weight             | 11.564 kg  |
| Unit Type of Package 3       | P12        |
| Number of Units in Package 3 | 384        |
| Package 3 Height             | 110.000 cm |

|                  |            |
|------------------|------------|
| Package 3 Width  | 80.000 cm  |
| Package 3 Length | 120.000 cm |
| Package 3 Weight | 286.536 kg |

## Contractual warranty

|                      |    |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



### Environmental footprint

|                                                        |                                               |
|--------------------------------------------------------|-----------------------------------------------|
| Total lifecycle Carbon footprint                       | 66 kg CO2 eq.                                 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 12 kg CO2 eq.                                 |
| Carbon footprint of the distribution phase [A4]        | 0.1 kg CO2 eq.                                |
| Carbon footprint of the installation phase [A5]        | 0.1 kg CO2 eq.                                |
| Carbon footprint of the use phase [B2, B3, B4, B6]     | 52 kg CO2 eq.                                 |
| Carbon footprint of the end-of-life phase [C1 to C4]   | 0.8 kg CO2 eq.                                |
| Environmental Disclosure                               | <a href="#">Product Environmental Profile</a> |

## Use Better



### Materials and Substances

|                                        |                                                                                        |
|----------------------------------------|----------------------------------------------------------------------------------------|
| Packaging made with recycled cardboard | No                                                                                     |
| Packaging without single use plastic   | No                                                                                     |
| SCIP Number                            | 1370256b-4f45-45cb-ba74-d245fc174cf9                                                   |
| EU RoHS Directive                      | <a href="#">Compliant By Exemption</a>                                                 |
| REACH Regulation                       | <a href="#">Reference contains Substances of Very High Concern above the threshold</a> |
| Halogen-free status                    | Halogen free plastic parts product                                                     |

## Use Longer



### Lifetime extension

|        |    |
|--------|----|
| Repair | No |
|--------|----|

## Use Again



### Repack and remanufacture

|                                 |                                                                                                                                                                                                                 |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recyclability potential, in %   | 32                                                                                                                                                                                                              |
| End of life manual availability | <a href="#">End of Life Information</a>                                                                                                                                                                         |
| Take-back                       | No                                                                                                                                                                                                              |
| WEEE Label                      |  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |