PRODUCT-DETAILS

# B21 112-100

## B21 112-100, Energy meter'Steel', Modbus RS485, Single-phase, 5 A

## General Information

| | |
|---|---|
| Extended Product Type | B21 112-100 |
| Product ID | 2CMA100150R1000 |
| ABB Type Designation | B21 112-100 |
| EAN | 7392696001502 |
| Catalog Description | B21 112-100, Energy meter'Steel', Modbus RS485, Single-phase, 5 A |
| Long Description | Advanced compact DIN-rail meter with an easy to read back lighted display. The meter is intended for use in the commercial or residential buildings etc. The meter can be used in 3 or 4 wire systems. The meter has several instrumentation values, 25 possible alarms and event logs. Single phase direct connected for active energy. One output for pulses or alarm etc. RS-485 communication over Modbus RTU or EQ Bus. Accuracy class 1.0 (or B for MID meters). The meters is IEC approved + MID approved and verified. |

## Technical

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|---|---|
| Standards | EN 50470-3 |
| Function | Electricity meter |
| Sub-Function | Steel |
| Rated Voltage ($U_r$) | 220-240 V |
| Voltage Range | 176…276 V |
| Rated Current ($I_n$) | 5 A<br>Maximum 65 A |
| Current Rating | 5 A |

| | |
|---|---|
| Rated Frequency (f) | 50 / 60 Hz |
| | 0.414 W |
| Communication Interface | Modbus RS485 |
| Accuracy | Active Energy Class B MID (±1%) |
| Measuring Instrument Conformity | Measurement Instrument Directive (MID) |
| Meter Tariff Rating | One-Tariff |
| Pulse Output Rate | 1-999999 |
| Number of Poles | 1 |
| Number of Phases | Single-phase |
| Number of Counter Positions | 7 |
| Number of Digital In/Outputs | 1 DO |
| ABB Type Designation | B21 112-100 |
| Meter Type | Direct connected |
| Mounting Type | DIN rail |
| Pulse Output Type | Electrical |
| Type of Indicator | Digital |
| Enclosure Material | Polycarbonate in transparent front glass. Glass reinforced polycarbonate in bottom case and upper case. Polycarbonate in terminal cover. |
| I/O Option | 1 digital output |
| Communication | Modbus RTU |
| Connecting Capacity Main Circuit | 1 ... 25 mm² |

## Environmental

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|---|---|
| Ambient Air Temperature | Operation -40 ... 70 °C |
| Degree of Protection | IP20 |
| RoHS Status | Following EU Directive 2002/95/EC August 18, 2005 and amendment |
| Environmental Information | 2CMC485004D0001 |

## Dimensions

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|---|---|
| Width in Number of Modular Spacings | 2 |
| Product Net Width | 35 mm |
| Product Net Height | 26.5 mm |
| Product Net Depth / Length | 65 mm |
| Product Net Weight | 0.15 kg |
| Size | 97X35X65 |

## Container Information

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|---|---|
| Package Level 1 Units | box 1 piece |
| Package Level 1 Width | 70 mm |
| Package Level 1 Height | 50 mm |

| | |
|---|---|
| Package Level 1 Depth / Length | 102 mm |
| Package Level 1 Gross Weight | 0.20 kg |
| Package Level 1 EAN | 7392696001502 |

## Ordering

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|---|---|
| Minimum Order Quantity | 1 piece |
| Customs Tariff Number | 90283011 |
| E-Number (Finland) | 6625027 |
| E-Number (Sweden) | 0900030 |
| Country of Origin | Italy (IT) |

## Certificates and Declarations (Document Number)

| | |
|---|---|
| Declaration of Conformity - CE | 2CMC485001D0001 |
| Environmental Information | 2CMC485004D0001 |
| Environmental Product Declaration - EPD | 9AKK108467A4138 |
| Instructions and Manuals | 2CMC485019M0201 |
| RoHS Information | 2CMC485005 |

## Popular Downloads

| | |
|---|---|
| Data Sheet, Technical Information | 2CMC485004M0201 |
| Instructions and Manuals | 2CMC485019M0201 |

## Classifications

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|---|---|
| ETIM 7 | EC001506 - Kilowatt-hour meter |
| ETIM 8 | EC001506 - Kilowatt-hour meter |
| WEEE Category | 5. Small Equipment (No External Dimension More Than 50 cm) |
| WEEE B2C / B2B | Business To Consumer |
| CN8 | 90283011 |
| eClass | V11.0 : 27142316 |
| Object Classification Code | P |

## Accessories

| Identifier | Description | Type | Quantity | Unit Of Measure |
|---|---|---|---|---|
| 2CCG000242R0001 | SCU100 Control unit | SCU100 | 1 | piece |
| 2CDG110226R0011 | QA/S3.16.1 Energy Analyzer, M-Bus, 16 Devices, MDRC | QA/S3.16.1 | 1 | piece |
| 2CDG110227R0011 | QA/S3.64.1 Energy Analyzer, M-Bus, 64 Devices, MDRC | QA/S3.64.1 | 1 | piece |
| 2CDG110228R0011 | QA/S4.16.1 Energy Analyzer, Modbus RTU, 16 Devices, MDRC | QA/S4.16.1 | 1 | piece |
| 2CDG110229R0011 | QA/S4.64.1 Energy Analyzer, Modbus RTU, 64 Devices, MDRC | QA/S4.64.1 | 1 | piece |
| 2CDG110224R0011 | QA/S1.16.1 Energy Analyzer, KNX, 16 Devices, MDRC | QA/S1.16.1 | 1 | piece |

## Categories

Low Voltage Products and Systems → Modular DIN Rail Products → Energy Efficiency Devices → Energy Meters