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 PRODUCT-DETAILS

## B21 112-100

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




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**General Information**

Extended Product Type	B21 112-100
Product ID	2CMA100150R1000
ABB Type Designation	B21 112-100
EAN	7392696001502

Catalog Description	Energy meter 'Steel', Modbus RS485, Single-phase, 5 A
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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.
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**ABB EcoSolutions**

Environmental Product Declaration - EPD	9AKK108467A4138
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## Technical

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 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 ( $\pm 1\%$ )
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
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 mm <sup>2</sup>

## Material Compliance

RoHS Information	2CMC485005
RoHS Status	Following EU Directive 2002/95/EC August 18, 2005 and amendment
RoHS Date	2012-36
REACH Declaration	9AKK108467A9482
REACH Information	True - contains substances > 0.1 mass percentage
REACH Date	20240429
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363

## Environmental

Ambient Air Temperature	Operation -40 ... 70 °C
Degree of Protection	IP20
Environmental Information	2CMC485004D0001

## Dimensions

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
Dimension Diagram	2CMC485004M0201

## Ordering

Package Level 1 Units	box 1 piece
Package Level 1 Gross Weight	0.20 kg
E-Number (Finland)	6625027
E-Number (Norway)	8204061
E-Number (Sweden)	0900030

## Certificates and Declarations

Declaration of Conformity - CE	2CMC485001D0001
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## Installation

Instructions and Manuals	2CMC485019M0201
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## Popular Downloads

Data Sheet, Technical Information	2CMC485004M0201
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## Classifications

ETIM 8	EC001506 - Kilowatt-hour meter
ETIM 9	EC001506 - Kilowatt-hour meter
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B	Business To Consumer
CN8	90283011
UNSPSC	41113667
eClass	V11.0 : 27142316
IDEA Granular Category Code (IGCC)	3300 >> Kilowatt-hour meter
Object Classification Code	P

## Accessories

Identifier	Description	Type	Quantity	Unit Of Measure
2CCG000242R0001	Control unit	SCU100	1	piece
2CDG110226R0011	Energy Management	QA/S3.16.1	1	piece
2CDG110227R0011	Energy Management	QA/S3.64.1	1	piece

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## Categories

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

