



PRODUCT-DETAILS

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	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.

ABB EcoSolutions

Recyclability Rate of the Product acc. to EN45555	Design for Closing Resource Loops - Standard EN45555 - 66.08 %
ABB Site Meeting Group Waste To Landfill Target	No non-hazardous waste is sent to a landfill UL 2799 Zero Waste To Landfill Validation available
Improved Energy	Process Efficiency - Product improves/optimizes process

Efficiency for Customers	Process Efficiency - Product contribute to making customer's operations more resilient and reliable Process Efficiency - Product contribute to reducing customer operations environmental footprint Digital Efficiency - Product is digitally-supported to optimize usage and eventually optimize customer asset
Extended Product Lifetime	Lifetime extension of customer's assets is made possible thanks to offering and the supporting services
End Of Life Disassembling Instructions	9AKK108470A1374
Environmental Product Declaration - EPD	9AKK108467A4138

Technical

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 (±1%)
Measuring Instrument Conformity	Measurement Instrument Directive (MID)
Meter Tariff Rating	One-Tariff
Pulse Output Rate	1-999999
Number of Poles	1P
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 ²

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
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B	Business To Consumer

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	150 g
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
Replacement Product ID (NEW)	2CMA241665R1000

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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External Classifications and Standards

ETIM 8	EC001506 - Kilowatt-hour meter
ETIM 9	EC001506 - Kilowatt-hour meter
UNSPSC	41113667
eClass	V11.0 : 27142316
IDEA Granular Category Code (IGCC)	3300 >> Kilowatt-hour meter
Object Classification Code	P
Standards	EN 50470-3

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

Categories

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



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