



PRODUCT-DETAILS

B24 112-100

Energy meter 'Steel', Modbus RS485, Three-phase, 1 A



General Information

Extended Product Type	B24 112-100
Product ID	2CMA100178R1000
ABB Type Designation	B24 112-100
EAN	7392696001786
Catalog Description	Energy meter 'Steel', Modbus RS485, Three-phase, 1 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. Three phase transformer 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)	3x220-240 V
Voltage Range	3x176...276 V
Rated Current (I_n)	1 A Maximum 6 A
Current Rating	1 A
Rated Frequency (f)	50 / 60 Hz 0.721 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	4P
Number of Phases	Three-phase
Number of Counter Positions	7
Number of Digital In/Outputs	1 DO
Meter Type	Transformer 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
Additional Information	CT (1A, 5A)
Communication	Modbus RTU
Connecting Capacity Main Circuit	0.5 ... 10 mm ²

Material Compliance

RoHS Information	2CMC485007
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	2CMC485003D0001

Dimensions

Width in Number of Modular Spacings	4
Product Net Width	70 mm
Product Net Height	26.5 mm
Product Net Depth / Length	65 mm
Product Net Weight	250 g
Size	96X70X65
Dimension Diagram	2CMC485003M0201

Ordering

Package Level 1 Units	box 1 piece
Package Level 1 Gross Weight	0.33 kg
E-Number (Finland)	6625041
E-Number (Norway)	8204075
E-Number (Sweden)	0900045

Certificates and Declarations

Declaration of Conformity - CE	2CMC485002D0001
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Installation

Instructions and Manuals	2CMC485019M0201
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Popular Downloads

Data Sheet, Technical Information	2CMC485003M0201
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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	IEC 62053-21

Accessories

Identifier	Description	Type	Quantity	Unit Of Measure
2CSG225995R1101	Current transformer	CT MAX 1000	1	piece
2CSG226055R1101	Current transformer	CT MAX 1000 SELV	1	piece
2CSG225945R1101	Current transformer	CT MAX 300	1	piece
2CSG226005R1101	Current transformer	CT MAX 300 SELV	1	piece
2CSG225955R1101	Current transformer	CT MAX 400	1	piece
2CSG226015R1101	Current transformer	CT MAX 400 SELV	1	piece
2CSG225965R1101	Current transformer	CT MAX 500	1	piece
2CSG226025R1101	Current transformer	CT MAX 500 SELV	1	piece
2CSG225975R1101	Current transformer	CT MAX 600	1	piece
2CSG226035R1101	Current transformer	CT MAX 600 SELV	1	piece
2CSG225985R1101	Current transformer	CT MAX 800	1	piece
2CSG226045R1101	Current transformer	CT MAX 800 SELV	1	piece
2CSG225785R1101	Current transformer	CT PRO XT 100	1	piece
2CSG225885R1101	Current transformer	CT PRO XT 100 SELV	1	piece
2CSG225795R1101	Current transformer	CT PRO XT 150	1	piece
2CSG225895R1101	Current transformer	CT PRO XT 150 SELV	1	piece
2CSG225805R1101	Current transformer	CT PRO XT 200	1	piece
2CSG225905R1101	Current transformer	CT PRO XT 200 SELV	1	piece
2CSG225815R1101	Current transformer	CT PRO XT 250	1	piece
2CSG225915R1101	Current transformer	CT PRO XT 250 SELV	1	piece
2CSG225825R1101	Current transformer	CT PRO XT 300	1	piece
2CSG225925R1101	Current transformer	CT PRO XT 300 SELV	1	piece
2CSG225745R1101	Current transformer	CT PRO XT 40	1	piece
2CSG225845R1101	Current transformer	CT PRO XT 40 SELV	1	piece
2CSG225835R1101	Current transformer	CT PRO XT 400	1	piece
2CSG225935R1101	Current transformer	CT PRO XT 400 SELV	1	piece
2CSG225755R1101	Current transformer	CT PRO XT 50	1	piece
2CSG225855R1101	Current transformer	CT PRO XT 50 SELV	1	piece
2CSG225765R1101	Current transformer	CT PRO XT 60	1	piece
2CSG225865R1101	Current transformer	CT PRO XT 60 SELV	1	piece
2CSG225775R1101	Current transformer	CT PRO XT 80	1	piece
2CSG225875R1101	Current transformer	CT PRO XT 80 SELV	1	piece
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

