PRODUCT-DETAILS

B23 212-100

B23 212-100, Energy meter'Bronze', Modbus RS485, Three-phase, 5 A

General Information

Extended Product Type	B23 212-100
Product ID	2CMA100166R1000
ABB Type Designation	B23 212-100
EAN	7392696001663
Catalog Description	B23 212-100, Energy meter'Bronze', Modbus RS485, Three-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. Three phase direct connected for active and reactive energy. Import and export of energy in different registers and one total. 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.

Eco Transparency

Environmental Product Declaration - EPD	9AKK108467A4138

Technical

Standards	IEC 62053-23
Function	Electricity meter
Sub-Function	Bronze
Rated Voltage (U_r)	3x220-240 V
Voltage Range	3x176…276 V
Rated Current (I_n)	5 A Maximum 65 A
Current Rating	5 A
Rated Frequency (f)	50 / 60 Hz
	0.721 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	4
Number of Phases	Three-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 mm²

Material Compliance

RoHS Information	2CMC485006
RoHS Status	Following EU Directive 2002/95/EC August 18, 2005 and amendment
RoHS Date	2012-36
REACH Declaration	9AKK108467A9482
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363

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	0.32 kg
Size	96X70X65

Dimension Diagram	2CMC485003M0201

Ordering

Package Level 1 Units	box 1 piece
Package Level 1 Gross Weight	0.39 kg
E-Number (Finland)	6625036
E-Number (Sweden)	0900039

Certificates and Declarations

Declaration of Conformity - CE	2CMC485001D0001

Installation

Instructions and Manuals	2CMC485019M0201

Popular Downloads

Data Sheet, Technical Information	2CMC485003M0201

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	90283019
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	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