PRODUCT-DETAILS

B23 112-100

B23 112-100, Energy meter'Steel', Modbus RS485, Three-phase, 5 A

General Information

Extended Product Type	B23 112-100
Product ID	2CMA100164R1000
ABB Type Designation	B23 112-100
EAN	7392696001649
Catalog Description	B23 112-100, Energy meter'Steel', 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 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.

Eco Transparency

Environmental Product Declaration - EPD	9AKK108467A4138

Technical

Standards	EN 50470-1
Function	Electricity meter
Sub-Function	Steel
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	97X70X65
Dimension Diagram	2CMC485003M0201

Ordering

Package Level 1 Units	box 1 piece
Package Level 1 Gross Weight	0.39 kg
E-Number (Finland)	6625034
E-Number (Sweden)	0900037

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
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