PRODUCT-DETAILS

A43 512-100

Energy meter 'Platinum', Modbus RS485, Three-phase, 5 A



General Information

Extended Product Type	A43 512-100
Product ID	2CMA170531R1000
ABB Type Designation	A43 512-100
EAN	7392696705318
Catalog Description	Energy meter 'Platinum', Modbus RS485, Three-phase, 5 A
Long Description	Advanced DIN-rail meter with a large and easy to read back lighted pixel-oriented display. The meter is intended for use in the industry, commercial buildings etc. The meter can be used in 3 or 4 wire systems with a wide voltage range. 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. Resettable register for intermediate values. Internal clock for tariff shift, Min and maximum demand, previous values and event log with timestamps. 8 channel load profile Four programmable inputs or outputs. Up to the 16th harmonicsfor 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

Environmental Product Declaration - EPD	9AKK108467A4138

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Technical

Standards	EN 50470-1
Function	Electricity meter
Sub-Function	Platinum
Rated Voltage (U_r)	3x57.7-288 V
Voltage Range	3x47…331 V
Rated Current (I_n)	5 A Maximum 80 A
Current Rating	5 A
Rated Frequency (f)	50 / 60 Hz
	0.807 W
Communication Interface	Modbus RS485
Accuracy	Active Energy Class B MID (±1%)
Measuring Instrument Conformity	Measurement Instrument Directive (MID)
Meter Tariff Control	Internal External
Meter Tariff Rating	Multi-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	4 I/O Channels
Real-time Clock	Real time clock with 5 ppm accuracy at reference temperature 25°C
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	4 programmable I/O
Communication	Modbus RTU
Connecting Capacity Main Circuit	1 ... 25 mm²

Material Compliance

RoHS Information	2CMC484006
RoHS Status	Following EU Directive 2002/95/EC August 18, 2005 and amendment
RoHS Date	2011-44
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	2CMC484004D0001

Dimensions

Width in Number of	7

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Modular Spacings	
Product Net Width	123 mm
Product Net Height	26.5 mm
Product Net Depth / Length	65 mm
Product Net Weight	0.448 kg
Size	97X123X65

Ordering

Package Level 1 Units	box 1 piece
Package Level 1 Gross Weight	0.538 kg
E-Number (Finland)	6625011
E-Number (Norway)	8204035
E-Number (Sweden)	0980713

Certificates and Declarations

Declaration of Conformity - CE	2CMC484003D0001

Installation

Instructions and Manuals	2CMC484003M0201

Popular Downloads

Data Sheet, Technical Information	2CMC484001M0201

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	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

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



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