



PRODUCT-DETAILS

B21 313-100

Energy meter 'Silver', M-Bus, 1-phase, 5 A



General Information	
Extended Product Type:	B21 313-100
Product ID:	2CMA100156R1000
ABB Type Designation:	B21 313-100
EAN:	7392696001564
Catalog Description:	Energy meter 'Silver', M-Bus, 1-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 and reactive energy. Import and export of energy in different registers and one total. Resettable register for intermediate values. Up to four tariffs. Two outputs and inputs for pulses or alarm etc. M-Bus communication. Accuracy class 1.0 (or B for MID meters). The meters is IEC approved + MID approved and verified.
Display Name:	B21 313-100

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 Efficiency for Customers:	Process Efficiency - Product improves/optimizes process 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:	Silver
Current Rating:	5 A
Communication Interface:	M-bus (wired)
Accuracy:	Active Energy Class B MID ($\pm 1\%$)
Measuring Instrument Conformity:	Measurement Instrument Directive (MID)
Meter Tariff Control:	External
Meter Tariff Rating:	Multi-Tariff
Pulse Output Rate:	1 ... 9999 kvar-h
Model Number:	Direct measurement
Number of Poles:	1P
Number of Phases:	1-phase
Number of Counter Positions:	7
Number of Digital In/Outputs:	2 Digital Inputs, 2 Digital Outputs
Energy Meter Type:	AC-MID
Pulse Output Type:	Electrical
Type of Indicator:	Digital
Communication:	M-Bus
Connecting Capacity Main Circuit:	1 ... 25 mm ²

Electrical

Rated Voltage (U_r):	220 ... 240 (Un) N-L V
Voltage Range:	176...276 V
Rated Current (I_n):	Maximum 65 A
Frequency (f):	50 ... 60 Hz
Rated Frequency (f):	50 / 60 Hz
Power Consumption (@P_{cons}):	0.414 W

Design

Enclosure Material:	Polycarbonate in transparent front glass. Glass reinforced polycarbonate in bottom case and upper case. Polycarbonate in terminal cover.
---------------------	--

Material Compliance

RoHS Declaration:	9AKK108470A3631
RoHS Information:	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Date:	20260203
REACH Declaration:	9AKK108467A9482
REACH Information:	True - contains substances > 0.1 mass percentage
REACH Date:	20240429
Conflict Minerals Reporting Template (CMRT):	9AKK108468A3363
SCIP:	fc50eb93-bfe0-4d06-b8c6-8f189eb34862 Italy
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

Ordering

Package Level 1 Units:	box 1 piece
Package Level 1 Gross Weight:	0.20 kg
E-Number (Finland):	6625032
E-Number (Norway):	8204066

E-Number (Sweden):	0900035
--------------------	---------

Certificates and Declarations

Declaration of Conformity - CE:	9AKK108470A3631
EU Data Act Compliance Declaration:	9AKK108471A5047

Installation

Instructions and Manuals:	2CMC485019M0201
Mounting Type:	DIN-Rail

Popular Downloads

Data Sheet, Technical Information:	2CMC485004M0201
------------------------------------	-----------------

External Classifications and Standards

ETIM 9:	EC001506 - Kilowatt-hour meter
ETIM 10:	EC001506 - Electricity meter
UNSPSC:	41113667
eClass:	V11.0 : 27142316
IDEA Granular Category Code (IGCC):	3300 >> Kilowatt-hour meter
Object Classification Code:	P
Standards:	EN 50470-1

Accessories

Identifier	Description	Type	Qty	Unit Of Measure
2CCG000242R0001	SCU100 InSite pro M compact	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

Categories

Products > Low Voltage Products and Systems > Modular DIN Rail Products > Energy Efficiency Devices > Energy Meters > kWh Meters, B-series



360°