EEM-350-D-MCB - Measuring device

2905849

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Three-phase energy meter for real power measurement in networks up to 460 V / 65 A, with 3 digital inputs and RS-485 interface, certified according to the MID directive

Commercial data

Item number	2905849
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	CMMC11
GTIN	4055626000855
Weight per piece (including packing)	411.9 g
Weight per piece (excluding packing)	398.4 g
Country of origin	IT

Technical data

Product properties

Product type	Energy measuring device

Insulation characteristics

Overvoltage category	III
Pollution degree	2

Electrical properties

Rated insulation voltage	300 V AC (EN 61010-1)
Test voltage	4 kV AC (50 Hz, 1 min.)
Mains type	3-phase (4-conductor)

Supply

Supply voltage range	Measurement voltage supply
Power consumption	≤ 12 VA (2 W)

Input data

Measuring data acquisition

Measuring principle	True r.m.s. value measurement
Measured value	AC sine (50 Hz/60 Hz)

Measurement: Voltage

Input name	Voltage measuring input V1, V2, V3
Input voltage range	196 V AC ... 460 V AC (Phase/Phase)
	113 V AC ... 265 V AC (Phase/neutral conductor)
Surge voltage capacity	460 V AC (Permanent)
	480 V AC (500 ms)
Precision	0.5 % (Phase/neutral conductor)
	1 % (Phase/Phase)

Measurement: Current

Input name	Current measuring input I1, I2, I3
Input current	10 A (scaled nominal current)
	65 A (I_{max})
Overload capacity	1920 A (10 ms)
	200 A (500 ms)
Precision	0.5 %

Measurement: Power

Precision	1 % (Effective and apparent power)
Active energy (EN 50470-3)	Class B
Real energy (IEC 62053-21)	Class 1
Reactive power (IEC 62053-23)	Class 2

Digital

Description of the input	Digital input
Number	3
Voltage input signal	5 V DC ±5 %
Maximum control current	> 10 mA

Connection data

Connection method	Screw connection
Note	other connections
Conductor cross-section rigid	1.5 mm²
Conductor cross-section flexible	1.5 mm² ... 1.5 mm²
Note	Measurement connection
Conductor cross-section rigid	2.5 mm² ... 16 mm²
Conductor cross-section flexible	2.5 mm² ... 16 mm²
Tightening torque	1.7 Nm ... 3 Nm

Interfaces

Data: Modbus RTU/JBUS

Interface	RS-485
Connection method	Screw terminal blocks

Data: Network interface

Communication protocol	Modbus RTU/JBUS
Communication standard	RS-485
Connection method	Screw terminal blocks
Transmission speed range	4.8 kbps ... 9.6 kbps
Address area	1 ... 247
Parity	none
Stop bit	1

Dimensions

Width	72 mm
Height	90 mm
Depth	67 mm

Material specifications

Color	black (RAL 9005)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP50 (Front)
	IP20 (Back side)
Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-30 °C ... 70 °C

Max. permissible relative humidity (operation)	< 90 %
Permissible humidity (storage/transport)	0 % ... 90 %

Approvals

CE

Certificate	CE-compliant

MID

Identification	Annex V

Mounting

Mounting type	DIN rail mounting
Mounting position	Horizontal DIN rail

Classifications

UNSPSC

UNSPSC 21.0	41113600

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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