

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

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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)

Digital input

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

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 %

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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

Connection data

Connection method	Screw connection
Note	other connections
Conductor cross-section rigid	1.5 mm ²
Conductor cross-section flexible	1.5 mm ² ... 1.5 mm ²
Note	Measurement connection
Conductor cross-section rigid	2.5 mm ² ... 16 mm ²
Conductor cross-section flexible	2.5 mm ² ... 16 mm ²
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)
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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

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

Approvals

CE

Certificate	CE-compliant
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MID

Identification	Annex V
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Mounting

Mounting type	DIN rail mounting
Mounting position	Horizontal DIN rail

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Classifications

ETIM

ETIM 8.0	EC002301
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UNSPSC

UNSPSC 21.0	41113600
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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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