

EEM-MA200 - Measuring device

2901362

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Energy measurement device to measure electrical parameters in low voltage installations up to 500 V, acquisition of total harmonic oscillations

Your advantages

- Pulse output

Commercial data

Item number	2901362
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C446
Product key	CMMC11
GTIN	4046356583916
Weight per piece (including packing)	312.7 g
Weight per piece (excluding packing)	308.2 g
Customs tariff number	90303100
Country of origin	FR

Technical data

Notes

Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
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Product properties

Product type	Energy measuring device
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Electrical properties

Electrical isolation	EN 61010-1 (Safe isolation)
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	EN 61010-1 (Basic insulation)
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Test voltage	3.5 kV AC (50 Hz, 1 min.)
	2.2 kV AC (50 Hz, 1 min.)
Mains type	3-phase (3 or 4-conductor), 2-phase (2-conductor), and single-phase (1-conductor)

Electrical isolation

Rated insulation voltage	300 V AC (EN 61010-1)
Overvoltage category	III
Pollution degree	2

Supply

Supply voltage range	110 V AC ... 277 V AC -10 % ... +15 %
Nominal power consumption	5 VA

Input data

Measuring data acquisition

Measuring principle	True r.m.s. value measurement
Measured value	AC sinus (45 ... 65 Hz)
Acquisition of harmonics	up to 51st harmonic

Measurement: Voltage

Input name	Voltage measurement V1, V2, V3
Input voltage range	50 V AC ... 519 V AC (Phase/Phase)

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	28 V AC ... 300 V AC (Phase/neutral conductor)
Precision	0.2 %

Measurement: Current

Input name	Current measurement I1, I2, I3
Input current range	via external transformers
Input current	9999 A (primary) 5 A (secondary)
Overload capacity	6 A (Permanent)
Response threshold from measuring range nominal value	5 mA
Precision	0.2 %

Measurement: Power

Messbereich_Leistung	0 kW ... 9999 kW 0 kvar ... 9999 kvar 0 kVA ... 9999 kVA
Precision	0.5 %
Active energy (IEC 62053-22)	Class 0.5 S
Reactive power (IEC 62053-23)	Class 2

Digital

Description of the input	Digital input
Number	1
Voltage input signal	230 V AC \pm 10 % (Tariff switchover: e.g., day/nighttime tariff)

Output data

Output description	Transistor output, active
Number	1
Maximum switching voltage	30 V DC
Current carrying capacity	27 mA

Connection data

Connection method	Screw connection
Note	other connections
Conductor cross-section rigid	0.5 mm ² ... 2.5 mm ²
Conductor cross-section flexible	0.5 mm ² ... 2.5 mm ²
Conductor cross-section AWG	20 ... 14
Note	Current and voltage connection
Conductor cross-section rigid	0.5 mm ² ... 4 mm ²
Conductor cross-section flexible	0.5 mm ² ... 4 mm ²
Conductor cross-section AWG	20 ... 10

Dimensions

Width	72 mm
Height	90 mm
Depth	64 mm

Material specifications

Color	black (RAL 9005)
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Environmental and real-life conditions

Ambient conditions

Degree of protection	(Front) IP20 (Back side)
Ambient temperature (operation)	-10 °C ... 55 °C (14 °F ... 131 °F)
Ambient temperature (storage/transport)	-20 °C ... 70 °C (-4 °F ... 158 °F)
Max. permissible relative humidity (operation)	≤ 95 %
Max. salt spray content	≤ 2.5 %

Approvals

CE

Certificate	CE-compliant
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UL, USA/Canada

Identification	UL 61010-1
	CSA-C22.2 No. 61010-1
	cULus

UL data

Nominal supply voltage range	110 V AC ... 277 V AC -10 % ... +15 %
Altitude	≤ 2000 m
Operating mode	Indoor use
Surge voltages	transient overvoltage according to installation classes
Overvoltage category	I, II, III
Overvoltage category of the supply	Min. II
Ambient temperature (operation)	5 °C ... 40 °C
Max. permissible relative humidity (operation)	80 % (up to 31 °C)
	50 % (at 40 °C)

UL data

Nominal supply voltage range	110 V AC ... 277 V AC -10 % ... +15 %
Altitude	≤ 2000 m
Operating mode	Indoor use
Ambient temperature (operation)	5 °C ... 40 °C
Max. permissible relative humidity (operation)	80 % (up to 31 °C)
	50 % (at 40 °C)
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Mounting

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Mounting type	DIN rail mounting
Mounting position	Horizontal DIN rail

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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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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