

## Measuring instrument - EEM-MA200 - 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

### Why buy this product

- Pulse output
- Two-tariff measurement via pulse input



### Key commercial data

Packing unit	1 pc
GTIN	 4 046356 583916
Weight per Piece (excluding packing)	308.2 g
Custom tariff number	90303100
Country of origin	France

### Technical data

#### Note:

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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#### Dimensions

Width	72 mm
Height	90 mm
Depth	64 mm

#### Ambient conditions

Degree of protection	IP51 (front), IP20 (back)
Ambient temperature (operation)	-10 °C ... 55 °C (14 °F to 131 °F)
Ambient temperature (storage/transport)	-20 °C ... 70 °C (-4 °F to 158 °F)
Max. permissible relative humidity (operation)	≤ 95 %
Max. salt spray content	≤ 2.5 %

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## Technical data

### Ambient conditions

Altitude	≤ 2000 m
Ambient temperature (operation)	5 °C ... 40 °C
Max. permissible relative humidity (operation)	80 % (Up to 31°C)
	50 % (at 40 °C)

### Input data

Measuring principle	True r.m.s. value measurement
Acquisition of harmonics	up to 51st harmonic
Measured value	AC sinus (45 ... 65 Hz)
Input name	Voltage measurement V1, V2, V3
Input voltage range	50 V AC ... 519 V AC (Phase/Phase)
	28 V AC ... 300 V AC (Phase/neutral conductor)
Precision	0.2 %
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 %
Messbereich_Leistung	0 kW ... 9999 kW
	0 kvar ... 9999 kvar
	0 kVA ... 9999 kVA
Precision	0.5 %
Active energy (IEC 62053-22)	Class 0.5S
Reactive power (IEC 62053-23)	Class 2
Description of the input	Digital input
Number	1
Voltage input signal	230 V AC ±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

### Interfaces

Name	None
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### General

Display	LCD display, backlighting
Measuring rate	approximately
Supply voltage range	110 V AC ... 277 V AC -10 % ... +15 %

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## Technical data

### General

Nominal power consumption	5 VA
Mains type	3-phase (3 or 4-wire), 2-phase (2-wire), and single-phase (1-wire)
Color	black
Conformance	CE-compliant
Rated insulation voltage	300 V AC (EN 61010-1)
Surge voltage category	III
Test voltage	3.5 kV AC (50 Hz, 1 min.)
	2.2 kV AC (50 Hz, 1 min.)

### Connection data

Conductor cross section stranded min.	0.5 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section solid min.	0.5 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	20
Conductor cross section AWG/kcmil max	14
Connection method	Screw connection
Tightening torque	0.6 Nm
Note	other connections
Conductor cross section stranded min.	0.5 mm <sup>2</sup>
Conductor cross section stranded max.	4 mm <sup>2</sup>
Conductor cross section solid min.	0.5 mm <sup>2</sup>
Conductor cross section solid max.	4 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	20
Conductor cross section AWG/kcmil max	10
Note	Current and voltage connection

### UL data

Nominal supply voltage range	110 V AC ... 277 V AC -10 % ... +15 %
Operating mode	Indoor use
Surge voltages	Surge voltages according to installation classes
Surge voltage category	I, II, III
Surge voltage category of the supply	Min. II

## Classifications

### eCl@ss

eCl@ss 4.0	27210902
eCl@ss 4.1	27210902
eCl@ss 5.0	27210902
eCl@ss 5.1	27210902
eCl@ss 6.0	27371890

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## Classifications

### eCl@ss

eCl@ss 7.0	27142333
eCl@ss 8.0	27142333

### ETIM

ETIM 3.0	EC001505
ETIM 4.0	EC000705
ETIM 5.0	EC000705

### UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121535
UNSPSC 11	39121535
UNSPSC 12.01	39121535
UNSPSC 13.2	39121535

## Approvals

### Approvals

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Approvals

UL Listed / cUL Listed / cULus Listed

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Ex Approvals

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Approvals submitted

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### Approval details

UL Listed
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cUL Listed
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cULus Listed
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