

## Measuring instrument - EEM-MA371 - 2908307


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Multi-functional energy measuring device with direct Rogowski connection and integrated Modbus/TCP interface for measuring electrical parameters in low-voltage installations up to 690 V.



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 471983
GTIN	4055626471983
Weight per Piece (excluding packing)	253.000 g
Custom tariff number	90303100
Country of origin	Germany

### Technical data

#### Dimensions

Width	90 mm
Height	80 mm
Depth	64 mm

#### Ambient conditions

Ambient temperature (operation)	-10 °C ... 55 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Maximum altitude	≤ 2000 m
Max. permissible relative humidity (operation)	≤ 95 % (non-condensing)
Degree of protection	IP40 (Display)
	IP30 (Housing)

#### Input data

Measuring principle	True r.m.s. value measurement
Acquisition of harmonics	up to 63rd harmonic
Measured value	AC sine (50/60 Hz)

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### Technical data

#### Input data

Input name	Voltage measuring input V1, V2, V3
Input voltage range	35 V AC ... 690 V AC (Phase/Phase)
	20 V AC ... 400 V AC (Phase/neutral conductor)
	60 V AC ... 2000000 V AC (primary)
	60 V AC ... 400 V AC (secondary)
Surge voltage capacity	760 V AC (Phase/Phase)
Precision	0.2 %
Input name	Current measurement RC1, RC2, RC3
Input current	4000 A
Response threshold from measuring range nominal value	5 A
Precision	< 1 %
	1 %
Reactive power (IEC 62053-23)	Class 2
Description of the input	Digital input in accordance with IEC/EN 61131-2 (type 3)
Number	1
Voltage input signal	0 V DC ... 30 V DC
Current input signal	2 mA ... 15 mA

#### Output data

Output description	Digital output in accordance with IEC/EN 61131-2 (type 3)
Number	1
Current output signal	≤ 100 mA

#### General

Display	LCD display, two-color backlit
Supply voltage range	100 V AC ... 230 V AC (# 20 %)
	150 V DC ... 250 V DC (# 20 %)
Power consumption	≤ 4 W
Mains type	3-phase (3 or 4-wire), 2-phase (2-wire), and single-phase (1-wire)
Color	gray
Conformance	CE-compliant
Test voltage	4 kV AC (50 Hz, 1 min.)
Product family	EMpro

#### Connection data

Connection name	Current / voltage / supply
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Conductor cross section flexible	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross section AWG	24 ... 10

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### Technical data

#### Connection data

Torque	0.5 Nm ... 0.6 Nm
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#### Connection data 2

Connection name	Digital I/O / communication
Connection method	Screw connection
Stripping length	7 mm
Screw thread	M3
Conductor cross section solid	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section flexible	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section AWG	26 ... 14
Torque	0.5 Nm ... 0.6 Nm

#### UL data

Operating mode	Indoor use
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#### Standards and Regulations

Conformance	CE-compliant
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#### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

### Classifications

#### eCl@ss

eCl@ss 8.0	27142330
eCl@ss 9.0	27142330

#### ETIM

ETIM 5.0	EC002301
ETIM 6.0	EC002301
ETIM 7.0	EC002301

### Approvals

#### Approvals

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Approvals

EAC

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Ex Approvals

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## Measuring instrument - EEM-MA371 - 2908307

### Approvals

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#### Approval details

EAC		RU*DE*08.B.00734/19
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