Measuring instrument - EEM-MA600 - 2901366

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Energy measurement device to measure electrical parameters in low voltage installations up to 700 V, acquisition of individual harmonic oscillations - can be extended with communication and special functional modules

Your advantages

- Can be extended with special function and communication modules
- Remote access via web server, integrated in Ethernet communication module
- Acquisition of individual harmonics up to 63rd harmonic
- Trend calculation for real and reactive power

Key Commercial Data

Packing unit	1 pc
GTIN	4 046356 584258
GTIN	4046356584258

Technical data

Note

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

Dimensions

Width	96 mm
Height	96 mm
Depth	82 mm
Installation depth with extension module	80 mm
Installation depth without extension module	60 mm

Ambient conditions

Ambient temperature (operation)	-10 °C ... 55 °C (14 °F to 131 °F)
Ambient temperature (storage/transport)	-20 °C ... 85 °C (-4 °F ... 185 °F)
Max. permissible relative humidity (operation)	≤ 95 %

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Ambient conditions

Max. salt spray content	≤ 2.5 %

Input data

Measuring principle	True r.m.s. value measurement
Acquisition of harmonics	up to 63rd harmonic
Measured value	AC sine (50/60 Hz)
Input name	Voltage measuring input V1, V2, V3
Input voltage range	18 V AC ... 700 V AC (Phase/Phase)
	11 V AC ... 404 V AC (Phase/neutral conductor)
Input voltage	500 kV AC (Primary, via external voltage transducers)
	Secondary: 60, 100, 110, 115, 120, 173, 190 V AC
Precision	0.2 %
Input name	Current measurement I1, I2, I3
Input current range	via external transformers
Input current	9999 A (primary)
	1 A and 5 A, secondary
Current measuring range	0 A ... 9999 A
Overload capacity	6 A (Permanent)
Response threshold from measuring range nominal value	10 mA
Precision	0.2 %
Current overload	10 x I_N for 1 s
Messbereich_Leistung	0 MW ... 8000 MW
	0 Mvar ... 8000 Mvar
	0 MVA ... 8000 MVA
Precision	0.5 %
Active energy (IEC 62053-22)	Class 0.5 S
Reactive power (IEC 62053-23)	Class 2
Voltage input signal	Via function module

Output data

Output description	Via function module

Interfaces

Designation	via communication module

General

Display	LCD display, backlighting
Measuring rate	approximately
Supply voltage	230 V AC
Supply voltage range	110 V AC ... 400 V AC ±10 %
Nominal power consumption	10 VA
Power consumption	20 VA (with max. number of extension modules)
Mains type	3-phase (3 or 4-wire), 2-phase (2-wire), and single-phase (1-wire)

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General

Color	black
Conformance	CE-compliant
Rated insulation voltage at mains voltage < 300 V AC (L/N)	III
Rated insulation voltage at mains voltage > 300 V AC - 600 V AC (L/N)	II
Test voltage	3.5 kV AC (50 Hz, 1 min.)

Connection data

Conductor cross section flexible min.	0.5 mm²
Conductor cross section flexible max.	2.5 mm²
Conductor cross section solid min.	0.5 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section AWG min.	20
Conductor cross section AWG max.	14
Connection method	COMBICON plug-in screw terminal block
Stripping length	6 mm
Tightening torque	0.4 Nm
Note	Voltage and other connections
Conductor cross section flexible min.	0.5 mm²
Conductor cross section flexible max.	6 mm²
Conductor cross section solid min.	0.5 mm²
Conductor cross section solid max.	6 mm²
Conductor cross section AWG min.	20
Conductor cross section AWG max.	8
Connection method	Screw connection
Stripping length	7 mm
Note	Current connection

UL data

Nominal supply voltage range	110 V AC ... 240 V AC ±10 %
	120 V DC ... 250 V DC ±10 %
Power consumption	10 VA
Operating mode	Indoor use
Surge voltages	Transient overvoltage according to installation classes
Overvoltage category	I, II, III
Overvoltage category of the supply	Min. II
Altitude	≤ 2000 m
Ambient temperature (operation)	0 °C ... 40 °C
Max. permissible relative humidity (operation)	80 % (up to 31°C)
	50 % (at 40 °C)

Standards and Regulations

Conformance	CE-compliant

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Standards and Regulations

UL, USA/Canada	UL 61010-1
	CSA-C22.2 No. 61010-1
	cULus

Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Approvals

Approvals

Approvals

UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 357804
cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 357804
EAC			RU *-DE.A*30.B.01628
cULus Listed			

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PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
http://www.phoenixcontact.com