

EEM-MA250

Order No.: 2901363



<http://eshop.phoenixcontact.ae/phoenix/treeViewClick.do?UID=2901363>

Energy measurement device to measure electrical parameters in low voltage installations up to 500 V, acquisition of total harmonic oscillations - can be expanded with RS-485 interface

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Commercial data	
EAN	
Pack	1 pcs.
Customs tariff	90303100
Gross weight in pieces	312.20 g

Technical data	
Input data	
Measuring principle	True r.m.s. value measurement
Acquisition of harmonics	up to 51st harmonic
Measured value	AC sine (50/60 Hz)
Input name	Voltage measuring input 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 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 <input type="checkbox"/> 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	Modbus RTU/JBUS
Interface	RS-485
Connection method	Screw terminal blocks
Serial transmission speed	2,4 ... 38.4 kbps

General data

Width	72 mm
Height	90 mm
Depth	64 mm
Display	LCD display, backlighting
Measuring rate	approximately
Supply voltage range	110 V AC ... 277 V AC -10% ... +15%
Nominal power consumption	5 VA
Degree of protection	IP51 (front), IP20 (back)
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.)
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 %
Salt spray	≤ 2.5 %

Connection data

Conductor cross section stranded min.	0.5 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section solid min.	0.5 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	20
Conductor cross section AWG/kcmil max	14
Connection method	Screw connection
Stripping length	6 mm
Tightening torque	0.6 Nm
Note	other connections
Conductor cross section stranded min.	0.5 mm ²
Conductor cross section stranded max.	4 mm ²
Conductor cross section solid min.	0.5 mm ²
Conductor cross section solid max.	4 mm ²
Conductor cross section AWG/kcmil min.	20
Conductor cross section AWG/kcmil max	10
Stripping length	6 mm
Note	Current and voltage connection

Certificates

Certification

cULus Listed

Certifications applied for:

Certification Ex:

Address

PHOENIX CONTACT Middle East FZ LLC
Office 301, Third Floor, Block 10, Dubai International
Academic City (DIAC)
Dubai, United Arab Emirates
Phone +971 4 437 0324
Fax +971 4 437 0323
<http://www.phoenixcontact.com>

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