

EEM-MA600


Order No.: 2901366



<http://eshop.phoenixcontact.ae/phoenix/treeViewClick.do?UID=2901366>

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

Commercial data

EAN	 4 046356 584258
Pack	1 pcs.
Customs tariff	90303100
Gross weight in pieces	807.40 g

Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation at <http://www.download.phoenixcontact.com>. The General Terms and Conditions of Use apply to Internet downloads.

Technical data

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 current range	Via external transformers

Input current	9999 A (primary)
	(1 A and 5 A, secondary)
Current measuring range	0 kA ... 11 kA
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 0.5S
Reactive power (IEC 62053-23)	Class 2
Voltage input signal	(Via extension module)
Output data	
Output description	Via extension module
Interfaces	
Name	Via extension module
General data	
Width	96 mm
Height	96 mm
Depth	82 mm
Installation depth with extension module	80 mm
Installation depth without extension module	60 mm
Display	LCD display, backlighting
Measuring rate	approximately
Supply voltage range	110 V AC ... 400 V AC ± 10%
Nominal power consumption	10 VA
Power consumption	20 VA (With maximum number of extension modules)
Degree of protection	IP52 (front), IP30 (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 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.)
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 %
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	COMBICON plug-in screw terminal block
Stripping length	6 mm
Tightening torque	0.4 Nm
Note	Voltage and other connections
Conductor cross section stranded min.	0.5 mm ²
Conductor cross section stranded max.	6 mm ²
Conductor cross section solid min.	0.5 mm ²
Conductor cross section solid max.	6 mm ²
Conductor cross section AWG/kcmil min.	20
Conductor cross section AWG/kcmil max	8
Connection method	Screw connection
Stripping length	7 mm
Note	Current connection

Certificates

Certification

cULus Listed

Certifications applied for:

Certification Ex:

Accessories

Item	Designation	Description
General		
2901475	EEM-2AO-MA600	Special functional module with two analog outputs (0–20/4–20mA) for EEM-MA600
2901371	EEM-2DIO-MA600	Special functional module with two digital inputs and outputs for EEM-MA600
2901373	EEM-ETH-MA600	Ethernet communication module for EEM-MA600
2901374	EEM-ETH-RS485-MA600	Gateway RS-485/Ethernet communication module for EEM-MA600
2901370	EEM-MEMO-MA600	Storage module for intermediate storage of values (512 kB) for EEM-MA600
2902078	EEM-MKT-DRA	DIN rail adapter for EEM-MA600 and EEM-MA400 energy meters
2901368	EEM-PB-MA600	PROFIBUS (1.5 Mbps) communication module for EEM-MA600
2901418	EEM-PB12-MA600	PROFIBUS (12 Mbps) communication module for EEM-MA600
2901367	EEM-RS485-MA600	RS-485 JBUS/MODBUS communication module for EEM-MA600

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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