

Measuring instrument - EEM-MA600-24DC - 2902352


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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



Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 657136
GTIN	4046356657136

Technical data

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 %
Max. salt spray content	≤ 2.5 %
Degree of protection	IP52 (Front)
	IP30 (Back side)

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

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Technical data

Input data

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 measuring input 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 extension module

Output data

Output description	via extension module
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Interfaces

Designation	Via extension module
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General

Display	LCD display, backlighting
Measuring rate	approximately
Supply voltage	24 V DC
Supply voltage range	12 V DC ... 48 V DC -6 % ... +20 %
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)
Color	black
Conformance	CE-compliant
Test voltage	3.5 kV AC (50 Hz, 1 min.)

UL data

Nominal supply voltage range	12 V DC ... 48 V DC -6 % ... +20 %
Power consumption	10 VA

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Technical data

UL data

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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Environmental Product Compliance

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

Classifications

eCl@ss

eCl@ss 4.0	27210900
eCl@ss 4.1	27210900
eCl@ss 5.0	27210900
eCl@ss 5.1	27210900
eCl@ss 6.0	27142300
eCl@ss 7.0	27142330
eCl@ss 8.0	27142330
eCl@ss 9.0	27142330

ETIM

ETIM 4.0	EC002301
ETIM 5.0	EC002301
ETIM 6.0	EC002301
ETIM 7.0	EC002301

UNSPSC

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

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Accessories

Accessories

Assembly adapter

DIN rail adapter - EEM-MKT-DRA - 2902078



DIN rail adapter for EEM-MA770-X and EEM-MA771-X series energy measuring devices

Communication module

Communication module - EEM-RS485-MA600 - 2901367



RS-485 JBUS/MODBUS communication module for EEM-MA600

Communication module - EEM-PB-MA600 - 2901368



PROFIBUS (1.5 Mbps) communication module for EEM-MA600

Communication module - EEM-PB 12-MA600 - 2901418



PROFIBUS (12 Mbps) communication module for EEM-MA600

Communication module - EEM-ETH-MA600 - 2901373



Ethernet communication module for the EEM-MA600 with integrated web server

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Accessories

Communication module - EEM-ETH-RS485-MA600 - 2901374



Gateway RS-485/Ethernet communication module for the EEM-MA600 with integrated web server

Function module

Special function module - EEM-MEMO-MA600 - 2901370



Storage module for intermediate storage of values for EEM-MA600

Special function module - EEM-2DIO-MA600 - 2901371



Special functional module with two digital inputs and outputs for EEM-MA600

Special function module - EEM-2AO-MA600 - 2901475



Special functional module with two analog outputs (0-20/4-20mA) for EEM-MA600

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