Measuring instrument - EEM-MA771-R - 2908285

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

Key Commercial Data

Packing unit	1 pc
GTIN	4 055626 471952
GTIN	4055626471952
Weight per Piece (excluding packing)	525.000 g
Custom tariff number	90303100
Country of origin	Germany

Technical data

Dimensions

Width	96 mm
Height	96 mm
Depth	58 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	IP52 (Display)
	IP20 (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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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 ... 400 V AC (# 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 mm² ... 6 mm²
Conductor cross section flexible	0.2 mm² ... 4 mm²
Conductor cross section AWG	24 ... 10
Torque	0.5 Nm ... 0.6 Nm

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Technical data

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 mm² ... 2.5 mm²
Conductor cross section flexible	0.14 mm² ... 1.5 mm²
Conductor cross section AWG	26 ... 14
Torque	0.5 Nm ... 0.6 Nm

Connection data 3

Connection name	RS-485
Connection method	Screw connection
Stripping length	7 mm
Screw thread	M3
Conductor cross section solid	0.2 mm² ... 2.5 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section AWG	24 ... 12
Torque	0.5 Nm ... 0.6 Nm

UL data

Operating mode	Indoor use

Standards and Regulations

Conformance	CE-compliant

Environmental Product Compliance

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

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Approvals

Approvals

EAC

Ex Approvals

Approval details

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

Accessories

Accessories

Assembly adapter

DIN rail adapter - EEM-MKT-DRA - 2902078

DIN rail adapter for EEM-MA600 and EEM-MA400 energy meters

Mounting material

Holder - PACT RCP-CLAMP - 2904895

The optional holding device ensures the Rogowski coil is securely seated on busbars with a thickness of 10 ... 15 mm. During installation, the coil housing is pushed onto the flange of the holding device and snaps in automatically.

Rogowski coil

Coil - PACT RCP-D95 - 2904890

300 mm long Rogowski coil. The measuring coil diameter when installed is 95 mm. The Rogowski coil is used for AC current measurement for busbars and power lines.

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Accessories

Coil - PACT RCP-D140 - 2904891

450 mm long Rogowski coil. The measuring coil diameter when installed is 140 mm. The Rogowski coil is used for AC current measurement for busbars and power lines.

Coil - PACT RCP-D190 - 2904892

600 mm long Rogowski coil. The measuring coil diameter when installed is 190 mm. The Rogowski coil is used for AC current measurement for busbars and power lines.

Coil - PACT RCP-D95-5M - 2910322

300 mm long Rogowski coil. The measuring coil diameter when installed is 95 mm. The Rogowski coil is used for AC current measurement for busbars and power lines.

Coil - PACT RCP-D95-10M - 2910323

300 mm long Rogowski coil. The measuring coil diameter when installed is 95 mm. The Rogowski coil is used for AC current measurement for busbars and power lines.

Coil - PACT RCP-D190-10M - 2910324

600 mm long Rogowski coil. The measuring coil diameter when installed is 190 mm. The Rogowski coil is used for AC current measurement for busbars and power lines.