EEM-EM375 - Measuring device

2908581

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SCREW



3-phase energy meter for active power measurement with current transformer measurement 1 A/5 A in grids of up to 500 V, with S0 output, Ethernet interface, certified in accordance with the MID directive

Commercial data

Item number	2908581
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C446
Product key	CMMC11
GTIN	4055626338248
Weight per piece (including packing)	459.7 g
Weight per piece (excluding packing)	459.7 g
Customs tariff number	90283019
Country of origin	IT

Technical data

Product properties

Product type	Energy meter

Insulation characteristics

Protection class	II (EN 50470-1)

Insulation characteristics

Pollution degree	2

Electrical properties

Accuracy class	Class B (EN 50470-3)
	Class 1 (EN 62053-21)
Electric strength	6 kV
	4 kV (EN 50470-3, 7.2)

Supply

Supply voltage range	Supply from the measuring circuit

Input data

Measurement

Input voltage range	3x 184 V ... 288 V (320 V ... 500 V)
Input current range	up to transformer ratio 10000
Power consumption	3.5 VA (1 W)
Frequency range	45 Hz ... 65 Hz
Startup current I_{st}	0.002 A
Minimum current I_{min}	0.01 A
Limiting current I_{max}	6 A
Transient current I_{tr}	0.05 A
Reference current I_{ref}	1 A
Secondary rated current I_{sn}	1 A
	5 A
Current transformer ratio	1 ... 10000 (max. 10000/1 or 50000/5)
Current transformer load	1.5 mΩ
Active energy (EN 50470-3)	Class B
Real energy (IEC 62053-21)	Class 1
Reactive power (IEC 62053-23)	Class 2

Output data

S0 output

Output description	Passive opto-isolated
Maximum switching voltage	27 V DC
Max. switching current	27 mA

Pulse time	50 ms ±2 ms
Pause time	30 ms ±2 ms
Pulse LED	10000 imp/kWh
Meter constant	100 imp/kWh, kVAh, kvarh
Meter constant	1000 imp/kWh, kVAh, kvarh (CT 1 ... 4)
	200 imp/kWh, kVAh, kvarh (CT 5 ... 24)
	40 imp/kWh, kVAh, kvarh (CT 25 ... 124)
	8 imp/kWh, kVAh, kvarh (CT 125 ... 624)
	1 imp/kWh, kVAh, kvarh (CT 625 ... 3124)
	0.1 imp/kWh, kVAh, kvarh (CT 3125 ... 10000)

Connection data

Measurement connection

Designation	Measurement connection

Conductor connection

Connection method	Screw connection
rigid	1.5 mm² ... 6 mm²
flexible	1.5 mm² ... 6 mm²
AWG	16 ... 10 (rigid/flexible)
Tightening torque	1.5 Nm

other connections

Designation	other connections

Conductor connection

Connection method	Screw connection
rigid	0.14 mm² ... 1.5 mm²
flexible	0.14 mm² ... 1.5 mm²
AWG	26 ... 16 (rigid/flexible)
Tightening torque	0.5 Nm

Interfaces

Communication:

Communication protocol	Modbus/TCP
	HTTP
	NTP
	DHCP
	FTP
Communication standard	IEEE 802.3
Connection method	RJ45
Transmission speed range	10 Mbps ... 100 Mbps

Dimensions

Width	72 mm

Height	90 mm
Depth	67 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	(Front)
	IP20 (Connections)
Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 75 °C
Max. permissible relative humidity (operation)	80 %
Mechanical environment	M1
EMC environment	E2

Approvals

CE

Certificate	CE-compliant

MID

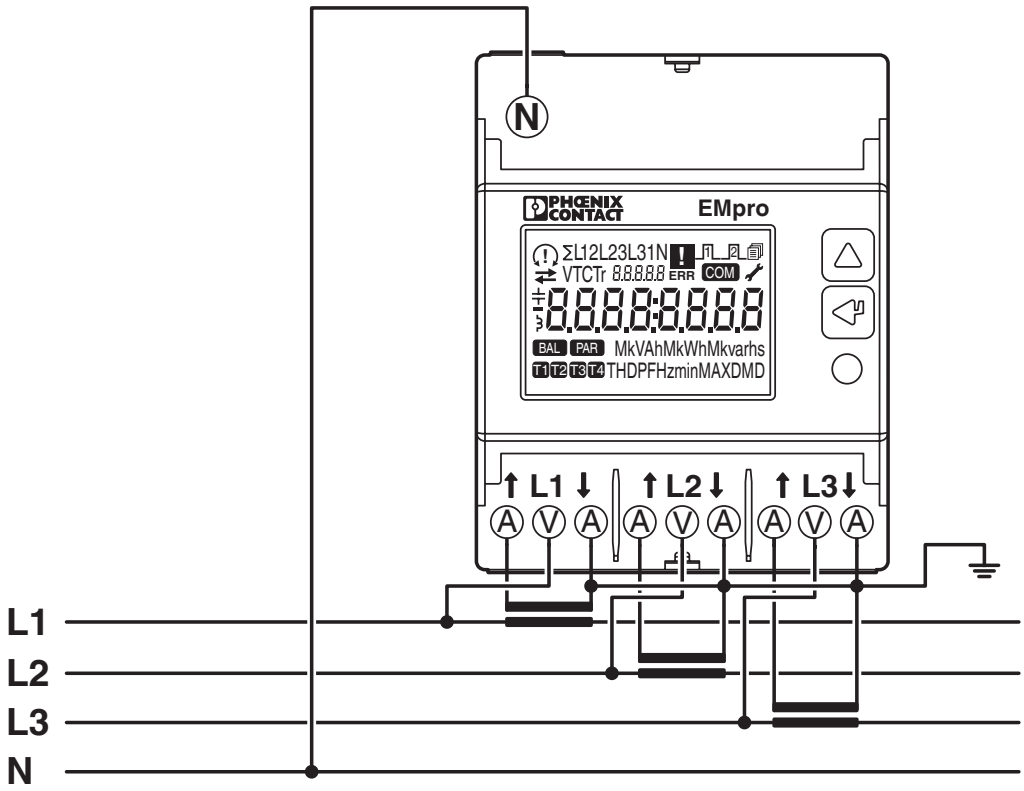
Identification	MID-compliant

Standards and regulations

Standards/specifications	EN 50470-1
	EN 50470-3

Drawings

Connection diagram



Classifications

ECLASS

ECLASS-13.0	27142330

ETIM

ETIM 9.0	EC002301

UNSPSC

UNSPSC 21.0	41113600

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

EF3.1 Climate Change

CO2e kg	32.02 kg CO2e

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