

EEM-EM375 - Measuring device

2908581

<https://www.phoenixcontact.com/us/products/2908581>



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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	CK4C11
Catalog page	Page 205 (C-5-2019)
GTIN	4055626338248
Weight per piece (including packing)	450 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
Data management status	
Article revision	04
Insulation characteristics	
Protection class	II (EN 50470-1)
Insulation characteristics	
Pollution degree	2

Electrical properties

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
Start current I_{st}	0.002 A
Minimal current I_{min}	0.01 A
Maximum current I_{max}	6 A
Transient current I_{tr}	0.05 A
Nominal 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
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

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Max. switching current	27 mA
Pulse time	50 ms $\pm$ 2 ms
Pause time	30 ms $\pm$ 2 ms
Pulse LED	10000 imp/kWh
Meter constant	100 imp/kWh, kVAh, kvarh
	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

Connection method	Screw connection
Conductor cross section rigid	1.5 mm ² ... 6 mm ²
Conductor cross section flexible	1.5 mm ² ... 6 mm ²
Conductor cross section AWG	16 ... 10 (rigid/flexible)
Tightening torque	1.5 Nm

Other connections

Connection method	Screw connection
Conductor cross section rigid	0.14 mm ² ... 1.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 1.5 mm ²
Conductor cross section 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

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Ambient conditions

Degree of protection (Front)	IP51 (Front)
Degree of protection (Connections)	IP20 (Connections)
Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 75 °C
Max. permissible relative humidity (operation)	80 %

Approvals

CE

Certificate	CE-compliant
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MID

Identification	MID-compliant
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Standards and regulations

Standards/specifications	EN 50470-1
	EN 50470-3

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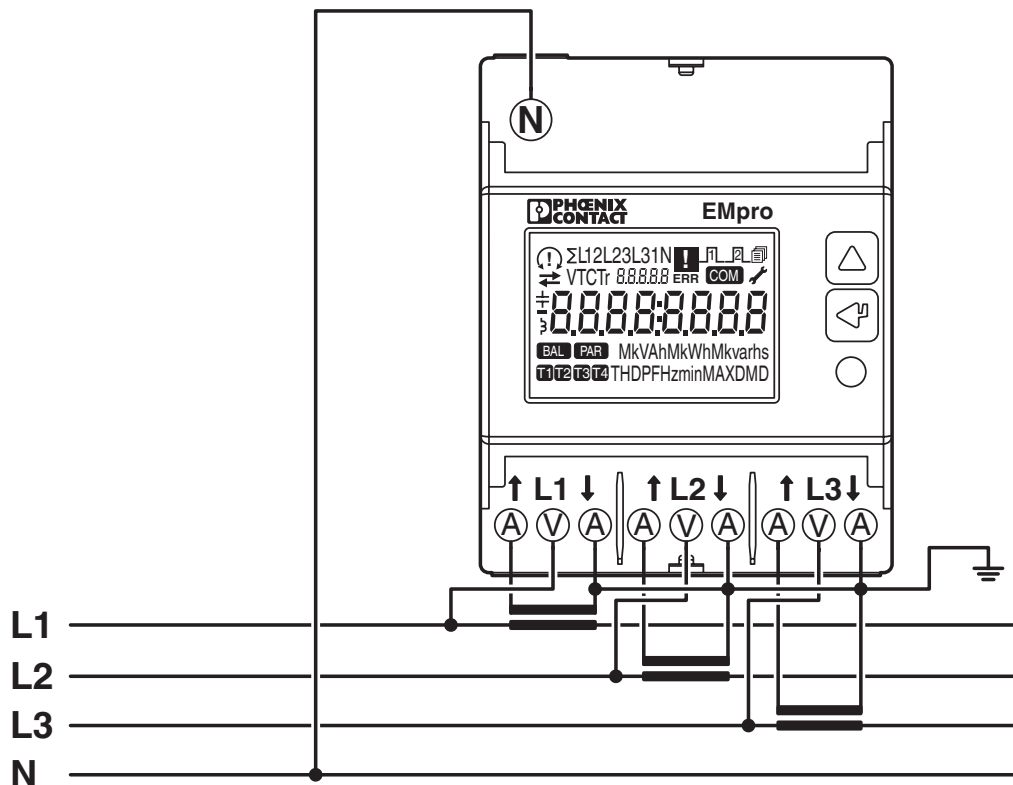
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Drawings

Connection diagram



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Approvals

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EAC

Approval ID: RU *-DE.A*30.B.01628

MID

Approval ID: No. 306/MID

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Classifications

ECLASS

ECLASS-11.0	27142330
ECLASS-12.0	27142330
ECLASS-13.0	27142330

ETIM

ETIM 9.0	EC002301
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UNSPSC

UNSPSC 21.0	41113600
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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%

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