

Measuring instrument - EEM-EM375



2908581

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

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Three-phase power meter for active power measurement with current transformer measurement 1 A / 5 A in networks 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
Product Key	CK4C11
Catalog Page	Page 205 (C-5-2019)
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
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Insulation characteristics

Protection class	II (EN 50470-1)
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
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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
Max. switching current	27 mA
Pulse time	50 ms ±2 ms
Pause time	30 ms ±2 ms
Pulse LED	10000 imp/kWh

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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

Connection method	Screw connection
Conductor cross section solid	1.5 mm ² ... 6 mm ²

Other connections

Connection method	Screw connection
Conductor cross section solid	0.14 mm ² ... 2.5 mm ²

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

Approval data

CE

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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

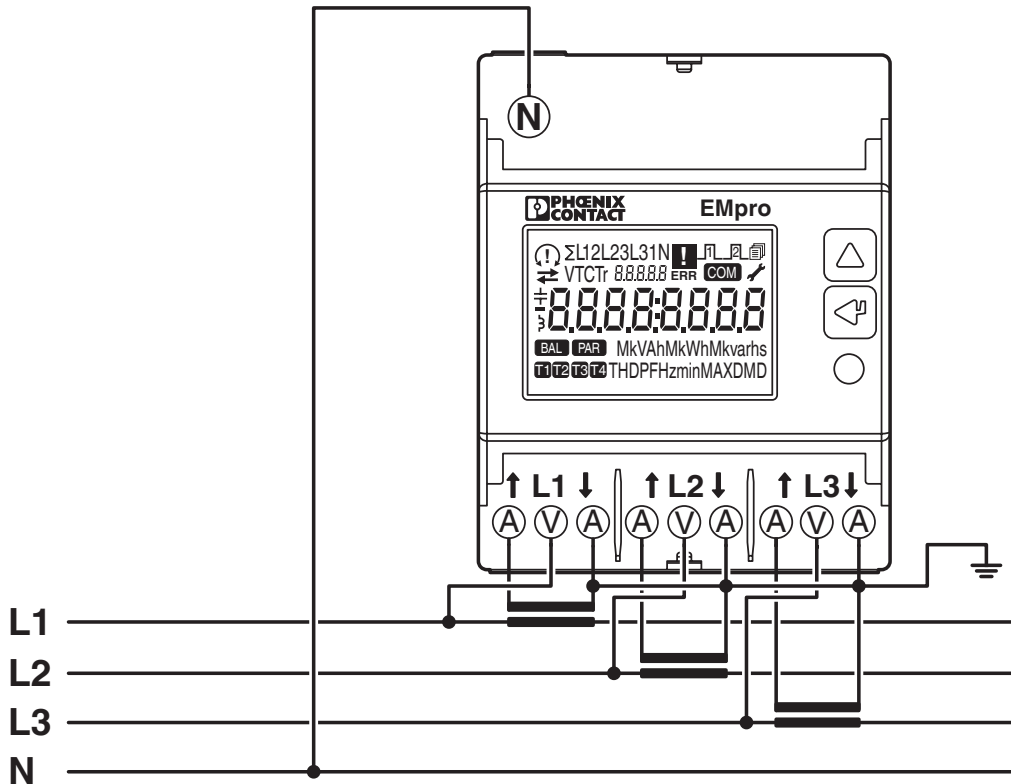
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Drawings

Connection diagram



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Approvals



EAC

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

MID

Approval ID: No. 306/MID

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Classifications

ECLASS

ECLASS-9.0	27142330
ECLASS-10.0.1	27142330
ECLASS-11.0	27142330

ETIM

ETIM 8.0	EC002301
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UNSPSC

UNSPSC 21.0	41113600
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Environmental Product Compliance

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

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