

# 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	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
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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
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

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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)
Meter constant	200 imp/kWh, kVAh, kvarh (CT 5 ... 24)
Meter constant	40 imp/kWh, kVAh, kvarh (CT 25 ... 124)
Meter constant	8 imp/kWh, kVAh, kvarh (CT 125 ... 624)
Meter constant	1 imp/kWh, kVAh, kvarh (CT 625 ... 3124)
Meter constant	0.1 imp/kWh, kVAh, kvarh (CT 3125 ... 10000)

## Connection data

### Measurement connection

Designation	Measurement connection
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### Conductor connection

Connection method	Screw connection
rigid	1.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
flexible	1.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
AWG	16 ... 10 (rigid/flexible)
Tightening torque	1.5 Nm

### other connections

Designation	other connections
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### Conductor connection

Connection method	Screw connection
rigid	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
flexible	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
AWG	26 ... 16 (rigid/flexible)
Tightening torque	0.5 Nm

## Interfaces

### Communication:

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

## Dimensions

Width	72 mm
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Height	90 mm
Depth	67 mm

## Environmental and real-life conditions

### 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 %
Mechanical environment	M1
EMC environment	E2

## 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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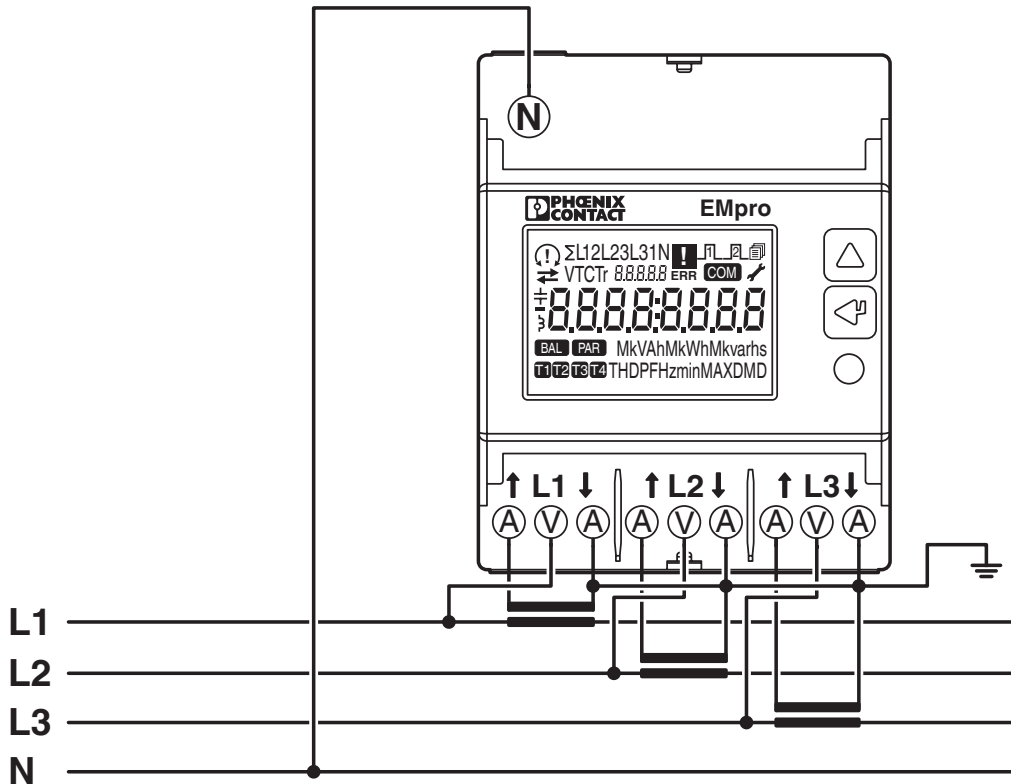
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## Drawings

Connection diagram



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## Classifications

### ECLASS

ECLASS-13.0

27142330

### ETIM

ETIM 9.0

EC002301

### UNSPSC

UNSPSC 21.0

41113600

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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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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### EF3.1 Climate Change

CO2e kg	32.02 kg CO2e
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