

# Measuring instrument - EEM-EM357



2908588

<https://www.phoenixcontact.com/pc/products/2908588>

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Three-phase power meter for active power measurement with direct measurement in networks of up to 500 V / 80 A, with S0 output, with digital input and RS-485 interface, certified in accordance with the MID directive



## Commercial Data

Item number	2908588
Packing unit	1 pc
Minimum order quantity	1 pc
Product Key	CK4C11
Catalog Page	Page 205 (C-5-2019)
GTIN	4055626338262
Weight per Piece (including packing)	489 g
Weight per Piece (excluding packing)	485.6 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)
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	0.02 A ... 80 A
Power consumption	3.5 VA (1 W)
Frequency range	45 Hz ... 65 Hz
Start current $I_{st}$	0.02 A
Minimal current $I_{min}$	0.25 A
Maximum current $I_{max}$	80 A
Transient current $I_{tr}$	0.5 A
Nominal current $I_{ref}$	5 A
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

#### Digital

Description of the input	Active opto-isolated
Input voltage range	80 V AC/DC ... 276 V AC/DC

### 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	1000 imp/kWh

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Meter constant	100 imp/kWh, kVAh, kvarh
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## Connection data

### Measurement connection

Connection method	Screw connection
Conductor cross section solid	1.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>

### Other connections

Connection method	Screw connection
Conductor cross section solid	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>

## Interfaces

### Communication

Communication protocol	Modbus
Communication standard	RS-485
Transmission speed range	300 bps ... 57600 bps
Parity	odd, even, none

## 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

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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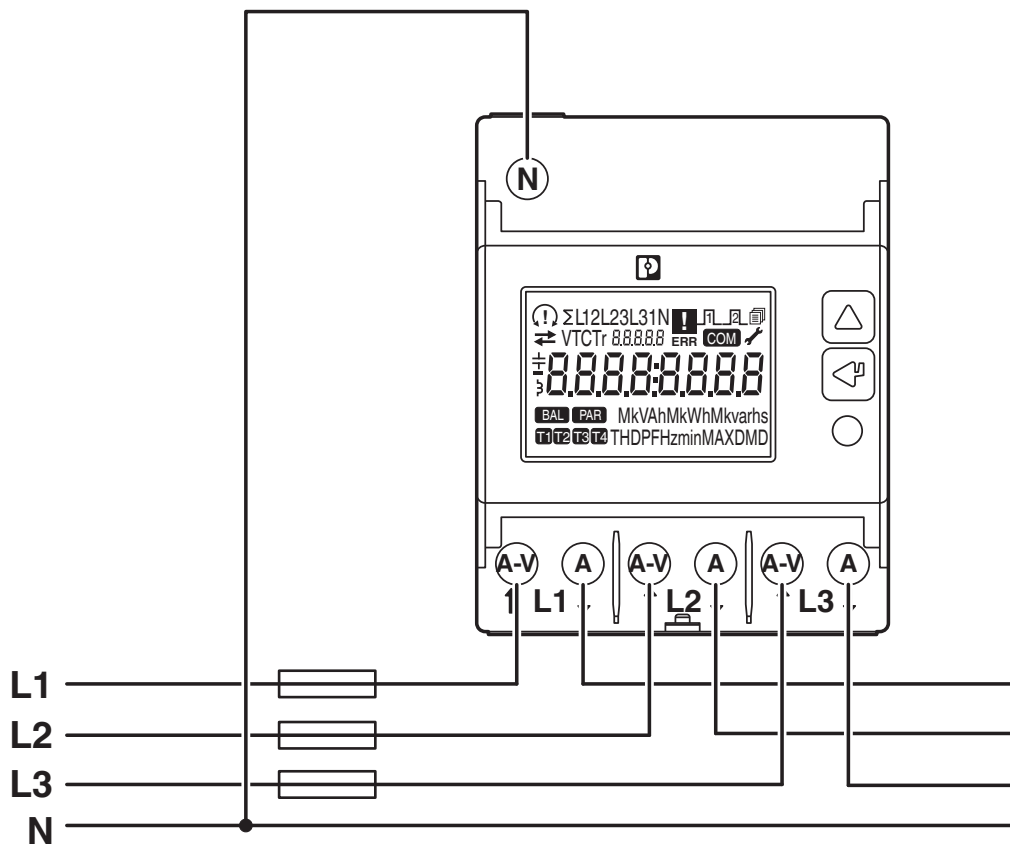
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## Drawings

Connection diagram



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## Approvals



**EAC**

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

**MID**

Approval ID: No. 308/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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