

EEM-DM357 - Measuring device



1252817

<https://www.phoenixcontact.com/us/products/1252817>

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3-phase energy meter for active power measurement with direct measurement in grids 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	1252817
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	CMMC11
GTIN	4063151361181
Weight per piece (including packing)	493.4 g
Weight per piece (excluding packing)	490 g
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	0.02 A ... 80 A
Power consumption	3.5 VA (1 W)
Frequency range	45 Hz ... 65 Hz
Startup current I_{st}	0.02 A
Minimum current I_{min}	0.25 A
Limiting current I_{max}	80 A
Transient current I_{tr}	0.5 A
Reference current I_{ref}	5 A
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

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

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Max. switching current	27 mA
Pulse time	50 ms ±2 ms
Pause time	30 ms ±2 ms
Pulse LED	1000 imp/kWh
Meter constant	100 imp/kWh, kVAh, kvarh

Connection data

Measurement connection

Designation	Measurement connection
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Conductor connection

Connection method	Screw connection
rigid	1.5 mm ² ... 35 mm ²
flexible	1.5 mm ² ... 35 mm ²
AWG	16 ... 2 (rigid/flexible)
Tightening torque	2 Nm

other connections

Designation	other connections
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Conductor connection

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

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	91 mm
Depth	70 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	(Front) IP20 (Connections)
Ambient temperature (operation)	-25 °C ... 55 °C

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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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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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