

Measuring instrument - EEM-DM357



1252817

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

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Three-phase energy 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



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Commercial Data

Item number	1252817
Packing unit	1 pc
Minimum order quantity	1 pc
Product Key	CK4C11
GTIN	4063151361181
Weight per Piece (including packing)	493.4 g
Weight per Piece (excluding packing)	490 g
Customs tariff number	90283019
Country of origin	IT

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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	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 ² ... 35 mm ²

Measurement connection

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

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	IP51 (Front) 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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CE

Identification	MID-compliant
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Standards and regulations

Standards/specifications	EN 50470-1 EN 50470-3
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Approvals

MID

Approval ID: No. 389/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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