

Measuring instrument - EEM-AM157-70



1219090

<https://www.phoenixcontact.com/gb/products/1219090>

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One-phase energy meter for active power measurement with direct measurement in networks of up to 276 V / 40 A, with S0 output, operating temperature up to +70°C and RS-485 interface, certified in accordance with the MID directive



Commercial Data

| | |
|--------------------------------------|---------------|
| Item number | 1219090 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales Key | CK4C11 |
| Product Key | CK4C11 |
| GTIN | 4063151302795 |
| Weight per Piece (including packing) | 126.32 g |
| Weight per Piece (excluding packing) | 122.3 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) |

Input data

Measurement

| | |
|-------------------------------|-----------------|
| Input voltage range | 184 V ... 276 V |
| Input current range | 0.02 A ... 40 A |
| Power consumption | 1.5 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} | 40 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 |

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 |
| Meter constant | 100 imp/kWh, kVAh, kvarh |

Connection data

Measurement connection

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

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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 | 2400 bps ... 38400 bps |
| Parity | odd, even, none |

Dimensions

| | |
|--------|-------|
| Width | 19 mm |
| Height | 92 mm |
| Depth | 70 mm |

Environmental and real-life conditions

Ambient conditions

| | |
|--|------------------------------------|
| Degree of protection | IP51 (Front) IP20 (Connections) |
| Ambient temperature (operation) | -25 °C ... 70 °C |
| Ambient temperature (storage/transport) | -25 °C ... 75 °C |
| Max. permissible relative humidity (operation) | 80 % |

Approval data

CE

| | |
|-------------|--------------|
| Certificate | CE-compliant |
|-------------|--------------|

CE

| | |
|----------------|---------------|
| Identification | MID-compliant |
|----------------|---------------|

Standards and regulations

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

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Approvals

MID

Approval ID: No. 388/MID

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Classifications

ECLASS

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

ETIM

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| ETIM 8.0 | EC002301 |
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UNSPSC

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| UNSPSC 21.0 | 41113600 |
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