





CVM-E3-MINI-MC-485-IC, N rail power analyzer

Code: M56424.

> Protocol: Modbus/RTU | BACnet > Communications: RS-485

> Transistor output: 1

> Digital inputs: 1

> Harmonics: 31 > Power supply (Vac): 207...253 Vac

> Input current: .../250 mA

> Mounting: DIN rail

Description

Three-phase power analyzer (balanced and unbalanced) for mounting on DIN rail, very compact, with measurements in 4 quadrants.

Other features:

- $\circ~$ Current measurement .../5 or .../1 A or .../250 mA or Rogowski type sensors
- o With ITF technology: ITF galvanic insulation protection
- O DIN rail with only 3 modules
- High-contrast backlit display
- o 72 x 72 mm panel mounting with front adapter
- o RS-485 communication (Modbus/RTU up to 19.2 kbps) (Bacnet up to 19.2 kbps)
- One transistor output (programmable)
- One digital input for selecting tariff or logic states
- Sealable terminal cover
- Harmonic display (V, A) up to 31°

Application

- Control application in low- and medium-voltage distribution panels and switchboards where it is necessary to place an analyzer on the DIN rail due to problems of space.
- o Alarm control. Maximum value, minimum value and programmable delay.
- o Control of active or reactive energy by impulse output.
- o Capture of maximum and minimum instantaneous data of electrical parameters measured.







Three-phase power analyzer for DIN rail

Code: M56424.

Specifications

| Installation category | CAT III 300 V |
|---|---|
| Consumption | 4 VA |
| Frequency | 5060 Hz |
| Nominal voltage | 207253 Vc.a. |
| fechanical characteristics | |
| Size (mm) width x height x depth | 52.5 x 118 x 74 (mm) |
| Envelope | Self-extinguishing V0 plastic |
| Differential current measurement | min. 2,5 mm2 |
| Fastening | DIN rail |
| Weight (kg) | 0,29 |
| nvironmental characteristics | |
| Protection class | IP 30 / Front: IP 40 |
| Relative humidity (without condensation) | 595% |
| Storage temperature | -10 +50 °C |
| Working temperature | -5 +45 °C |
| urrent measurement circuit | |
| Installation category | CAT III 300 V |
| Nominal current (In) | /0,250 A |
| Phase current measuring range | 2100% de In |
| Maximum input current consumption | 0,9 VA |
| Minimum current measurement | 0,2 % In |
| oltage measurement circuit | |
| Installation category | CAT III 300 V |
| 3 , | 400 kΩ |
| Input impedance | 400 735 |
| | 4565 Hz |
| Input impedance | |
| Input impedance Frequency measuring range | 4565 Hz |
| Input impedance Frequency measuring range Nominal voltage | 4565 Hz 300V Ph-N, 520V Ph-Ph |
| Input impedance Frequency measuring range Nominal voltage Minimum measurement voltage (Vstart) | 4565 Hz 300V Ph-N, 520V Ph-Ph |
| Input impedance Frequency measuring range Nominal voltage Minimum measurement voltage (Vstart) tandards | 4565 Hz 300V Ph-N, 520V Ph-Ph 11 V Ph-N |
| Input impedance Frequency measuring range Nominal voltage Minimum measurement voltage (Vstart) tandards Electrical safety, Maximum height (m) | 4565 Hz 300V Ph-N, 520V Ph-Ph 11 V Ph-N 2000 |







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| Keyboard | 3 keys |
|--------------|----------------|
| Display type | LCD Custom COG |
| | |

Digital inputs

| Input/output insulation | Optoisolated | |
|-------------------------|----------------------------|--|
| Quantity | 1 | |
| Туре | NPN Potential-free contact | |

Digital transistor outputs

| Pulse width | 30500 ms (Programmable) |
|-------------------|-------------------------|
| Туре | NPN |
| Maximum frequency | 16 imp / s |
| Maximum current | 50 mA |
| Maximum voltage | 24 Vdc |

Measurement accuracy

| Frequency measurement | 0,50% | |
|-------------------------------------|---|--|
| Phase current measurement | $0.5 \% \pm 1 \text{ digit } (10\% \le I \le 100\% \text{ In})$ | |
| Reactive energy measurement (kvarh) | Class 2 (2 100% In) | |
| Reactive power measurement (kvar) | class 2 (2 100% ln) | |
| Apparent power measurement (kVA) | 2 % ±2 digits (2 100% In) | |
| Active energy measurement (kWh) | Class 1 (2 100% In) | |
| Active power measurement (kW) | 2 % ±2 digits (2 100% In) | |
| Phase voltage measurement | 0.5% ± 1 digit | |

Serial communication

| - | |
|-------------------|--------------------|
| Protocol | ModBus/RTU, BACnet |
| Technology / Type | RS-485 / BACnet |

CVM-E3-MINI

Power analyzer, three-phase DIN rail

| CODE | TYPE | Input current | Transistor output | Digital inputs | Communications | Protocol |
|---------|-------------------------|---------------|----------------------|-------------------|----------------|---------------------|
| M56414. | CVM-E3-MINI-ITF-485-IC | /5 A /1 A | 1 | 1 | RS-485 | Modbus/RTU BACnet |
| M56424. | CVM-E3-MINI-MC-485-IC | /250 mA | 1 | 1 | RS-485 | Modbus/RTU BACnet |
| M56454. | CVM-E3-MINI-FLEX-485-IC | Rogowski | 1 | 1 | RS-485 | Modbus/RTU BACnet |

[&]quot;Built-in wireless communication on all WiEth models for configuration via free app (MyConfig) RS-485 models, possibility of switching power supply Consult additional benefits"









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Dimensions

Connections





