





CVM-E3-MINI-FLEX-485-IC, rail power analyzer

Code: M56454.

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

> Transistor output: 1> Digital inputs: 1> Harmonics: 31

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

> Input current: Rogowski> 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
- $\circ~72~x~72~mm$ 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: M56454.

Specifications

| AC power supply | |
|--|--|
| Installation category | CAT III 300 V |
| Consumption | 4 VA |
| Frequency | 5060 Hz |
| Nominal voltage | 207253 Vc.a. |
| Mechanical characteristics | |
| Size (mm) width x height x depth | 52.5 x 118 x 74 (mm) |
| Envelope | Self-extinguishing VO plastic |
| Differential current measurement | min. 2,5 mm2 |
| Fastening | DIN rail |
| Weight (kg) | 0,28 |
| Environmental characteristics | |
| Protection class | IP 30 / Front: IP 40 |
| Relative humidity (without condensation) | 595% |
| Storage temperature | -10 +50 °C |
| Working temperature | -5 +45 °C |
| Current measurement circuit | |
| Installation category | CAT III 300 V |
| Nominal current (In) | 1000 A / 100 mV |
| Phase current measuring range | 10 120% de In |
| Maximum input current consumption | 0,9 VA |
| Maximum current | 1200 A / 120 mV |
| Minimum current measurement | 20 A / 2 mA |
| Voltage measurement circuit | |
| Installation category | CAT III 300 V |
| Input impedance | 400 kΩ |
| Frequency measuring range | 4565 Hz |
| Nominal voltage | 300V Ph-N, 520V Ph-Ph |
| Minimum measurement voltage (Vstart) | 11.5 V Ph-N |
| Standards | |
| Electrical safety, Maximum height (m) | 2000 |
| Standards | IEC 61010-1, IEC 61010-2-030, IEC 61326-1, IEC 61557-12 , UL94 |
| | |







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User interface

| LED | 2 LED |
|--------------|----------------|
| 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% ± 1 digit |
| Reactive energy measurement (kvarh) | Class 3 |
| Reactive power measurement (kvar) | 2 % ±2 digits |
| Apparent power measurement (kVA) | 1 % ±2 digits |
| Active energy measurement (kWh) | Class 2 |
| Active power measurement (kW) | 1 % ±2 digits |
| 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 | ТҮРЕ | 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





