CVM-MINI-MC-ITF-RS485-C2

CVM-MINI-MC-ITF-RS485-C2, Power analyzer

Code: M52081. **DESCATALOGADO**

> Protocol: Modbus/RTU
> Insulated input: Yes
> Communications: RS-485
> Transistor output: 2
> Input current: .../250 mA
> Mounting: DIN rail

Description

Three-phase power analyzer (balanced and unbalanced), assembly on DIN rail, with a very compact size, and 4-quadrant measurement.

Other features include:

- Current measurement .../5 or .../1 A or .../250 mA, .../333 mV
- DIN rail format of only 3 modules
- Assembly on 72 x 72 mm panel with adapter front panel
- RS-485 Communications (Modbus-RTU) depending on model
- It features two transistor outputs (programmable)
- With ITF technology: galvanic insulation protection, depending on the type
- Selection of parameters to display
- Selection of the default page
- Universal power supply (optional)
- Sealable

Application

- Control application on switchboards and low and medium voltage connection points, where an analyzer must be installed on a DIN rail due to space restrictions.
- Alarm control. Maximum value, minimum value and programmable delay.
- Control of active or reactive energy using the impulse output.
- Instantaneous data capture, maximum and minimum values of the electrical parameters measured.

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Specifications

AC power supply

Consumption	3 VA
Frequency	50...60 Hz
Nominal voltage	230 Vc.a.(-15...+10%)

Mechanical characteristics

Size (mm) width x height x depth	53 x 85 x 85 (mm)
Envelope	Self-extinguishing V0 plastic
Fastening	DIN rail 46227
Weight (kg)	0,178

Environmental characteristics

Protection class	IP 51 (Front), IP 31 (unmounted)
Relative humidity (without condensation)	5...95%
Working temperature	-10...+50 °C

Standards

Certifications	CE, UL, VDE
Electrical safety, Maximum height (m)	2000
Electrical safety, Installation category	CAT III 300V / 520V, IEC 61010
Standards	IEC 664, VDE 0110, UL 94, IEC 801, IEC 348, IEC 571-1, EN 61000-6-3, EN 61000-6-1, EN 61010-1, EN 61000-4-11, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 55011

Current measurement circuit

Nominal current (In)	In/250 mA
Phase current measuring range	0,2%...120% (ITF)
Permanent overload	1.2 In
Maximum input current consumption	0,18 VA

Voltage measurement circuit

Frequency measuring range	45 ... 65 Hz
Nominal voltage	300V Ph-N, 520V Ph-Ph
Maximum input voltage consumption	0,7 VA

Electrical safety

Insulation	Double-insulated electric shock protection class II (IEC 61010-1)

Digital transistor outputs

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Pulse width	100 ms
Quantity	2
Type	NPN
Maximum frequency	5 imp / s
Maximum current	50 mA
Maximum voltage	24 Vdc

Measurement accuracy

Current measurement sensors	External transformers
Voltage measurement sensors	Direct voltage
Power factor measurement	0,5...1
Phase voltage measurement	0.5% ± 1 digit

Serial communication

Protocol	ModBus RTU
Technology / Type	RS-485

CVM-MINI-MC units require efficient MC series transformers, which are not included in the price. CVM-MINI-xx-ETH units are only available with a 230 Vac power supply

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Dimensions