

CVM MINI

Three-phase power analyzer (balanced and unbalanced) for DIN rail mounting



Description

Three-phase power analyzer (balanced and unbalanced) for its assembly on DIN rails with very small dimensions, measuring in 4 quadrants.

Other features include:

- Current measuring .../5 or .../1 A
- DIN rail format with only 3 modules
- Assembly on the 72 x 72 mm panel with frontal adaptor (cod. M5ZZF1)
- RS-485 Communications (Modbus-RTU)
- Two transistor outputs
- ITF technology: galvanic insulation protection inputs inputs, depending on the type
- Selection of parameters displayed
- Default page selection
- Universal power supply for the Plus type
- Sealable

Application

- Application for the control of switchboards and low and medium voltage connection points, where an analyzer must be installed on the DIN rail due to space restrictions.
- Control of instantaneous, maximum and minimum values of the electrical parameters metered.

Features

| | |
|------------------------------------|--|
| Power supply circuit | 230 Vac (-15...+10%) Plus: 85...0.265 Vac / 95...300 V dc |
| Consumption | 3 V·A |
| Frequency | 45...65 Hz |
| Metering circuit | |
| Nominal voltage | 300 Vac (ph-n) / 520 Vac (ph-ph) |
| Frequency | 40...0.65 Hz |
| Voltage consumption of the circuit | 0.7 V·A |
| Current consumption of the circuit | ITF 0.9 / Shunt 0.75 V·A |
| Transformadores | .../5 A ó.../ 1 A / 250 mA |
| Minimum direct current | 110 mA |
| Maximum direct current | 6 A |
| Maximum current con transformador | $I_n / 5$ 1,2 I_n |
| Class/Accuracy | |
| Voltage | 0.5 % ± 1 digit |
| Current | 0.5 % ± 1 digit |
| Power rating | 1 % ± 1 digit |
| Ambient conditions | |
| Operating temperature | -10 ... +50 °C |
| Relative humidity (non-condensing) | 5 ... 95% |
| Altitud | 2000 m |
| Output transistor | Optoinsulated (collector open) NPN |
| Maximum switching voltage | 24 V dc |
| Maximum switching current | 50 mA |
| Maximum impulse frequency | 5 impulse / s |
| Duration of the impulse | 100 ms / 100 ms |
| Build features | |
| Type of box | VO self-extinguishing plastic |
| Degree of protection | Embedded equipment: IP 41 Terminals: IP 20 |
| Dimensions | 52.5 x 85 x 67.9 mm (3 modules) |
| Weight | 210 g |
| Safety | |
| | Designed for CAT III 300/520 Vac installations, in accordance with EN 61010. Double-insulated electric shock protection, class II |
| 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 |



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References

| Quadrants | Class (V, A) | Communications | Protocol | Digital output | Harmonics | Type | Code |
|-----------|--------------|--|--------------|----------------|---------------|-----------------------------------|---------------|
| 4 | 0,5 | - | - | - | - | CVM-MINI | M52000 |
| 4 | 0,5 | - | - | - | - | CVM-MINI-ITF | M52010 |
| 4 | 0,5 | RS-485 | MODBUS / RTU | 2 | - | CVM-MINI-ITF-RS-485-C2 | M52021 |
| 4 | 0,5 | RS-485 | MODBUS / RTU | 2 | V and I (15°) | CVM-MINI-ITF-HAR-RS-485-C2 | M52031 |
| 4 | 0,5 | RJ-45 | MODBUS/TPC | 2 | - | CVM-MINI-ITF-ETHERNET-C2 | M520J1 |
| 4 | 0,5 | - | BACnet | 2 | - | CVM-MINI-ITF-BACnet-C2 | M520F1 |
| 4 | 0,5 | LonTalk ISO/IEC 14908 ANSI/EIA 7091 | LonWorks | 2 | - | CVM-MINI-ITFLonWorks-C2 | M52091 |

CVM MINI-MC, Efficient measuring Systems

| | | | | | | | |
|---|-----|--------|---|----|---|----------------------------------|---------------|
| 4 | 0,5 | - | - | Si | - | CVM MINI-MC-ITF | M52070 |
| 4 | 0,5 | RS-485 | 1 | Si | - | CVM MINI-MC-ITF-RS-485-C2 | M52081 |

MC1 single-phase and MC3 three-phase Efficient Transformers, MC Series

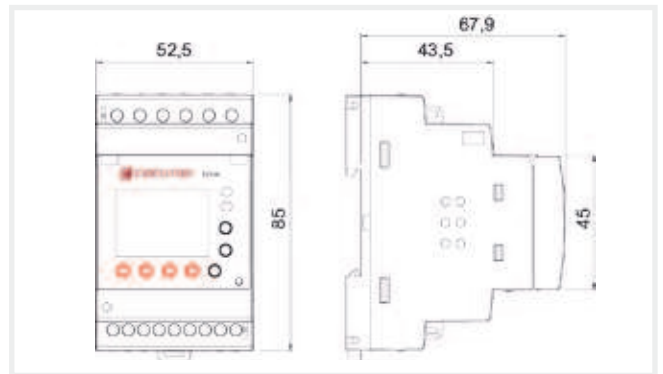
| Max. A | Ranges | Class 0,5 Power | Measurement | Internal diameter | Type | Code |
|--------|---------------|-----------------|-------------|-------------------|-----------------------------|---------------|
| 63 | - | 0,1 VA | 3 phase | 7,1 mm | MC3-63 | M73121 |
| 125 | - | 0,1 VA | 3 phase | 14,6 mm | MC3-125 | M73122 |
| 250 | 150/200/250 | 0,25 VA | 1 phase | 20 mm | MC1-20-150/200/250 | M73113 |
| 250 | - | 0,25 VA | 1 phase | 26 mm | MC3-250 | M73123 |
| 500 | 250/400/500 | 0,25 VA | 1 phase | 30 mm | MC1-30-250/400/500 | M73114 |
| 1500 | 500/1000/1500 | 0,25 VA | 1 phase | 55 mm | MC1-55-500/1000/1500 | M73115 |

Coding table

| M | 5 | X | X | X | X | 0 | 0 | X |
|----------------------------|---|---|---|---|---|---|------------------|----|
| Code | | | | | | | Internal Code | ↑ |
| Power Supply Voltage (PSV) | | | | | | | Standard 230 Vac | 0 |
| | | | | | | | 85...285 Vac | C |
| | | | | | | | 95...300 Vdc | |
| | | | | | | | 20...120 V c.c. | 5* |

* MC transformer's connection

Dimensions



Connections

