CVM-E3-MINI-FLEX-WiEth

CVM-E3-MINI-FLEX-WiEth, DIN rail three-phase power analyser

Code: M56490.

> Protocol: Modbus/TCP
> Communications: Ethernet | Wi-Fi
> Harmonics: 31
> Power supply (Vac): 90...264 Vac/Vdc
> Input current: Rogowski
> Mounting: DIN rail

Description

Three-phase electrical network analyser (balanced and unbalanced) for DIN rail mounting and panel option with 72x72 adapter, with measurements in 4 quadrants.

Other features are:

- Current measurement with ITF measuring transformers .../5 A,.../1A, **MC** transformers .../250 mA and **FLEX-MAG** clamps, according to type
- With ITF technology: ITF galvanic insulation protection
- DIN rail format with only 3 modules
- High contrast backlit display
- 72x72 mm panel mounting with front adapter
- Ethernet, Wi-Fi communications
- Configuration of communications on the App (MyConfig) and on the website.
- Sealable terminal cover
- Display of voltage and current harmonics up to 31º

Application

- Control application in switchboards and low and medium voltage connections where there is a need for an analyser on the DIN rail.
- Instantaneous data capture, maximum and minimum levels of electrical parameters measured.
- Installation with Ethernet cable (RJ-45)
- Installation without the need for communications wiring in facilities that have a Wi-Fi network.

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Specifications

AC power supply

Installation category	CAT III 300 V
Consumption	3,5 VA
Frequency	50...60 Hz
Nominal voltage	207...253 Vc.a.

Mechanical characteristics

Size (mm) width x height x depth	52.5 x 118 x 74 (mm)
Envelope	Self-extinguishing V0 plastic
Fastening	DIN rail
Weight (kg)	0,25

Environmental characteristics

Protection class	IP 30 / Front: IP 40
Relative humidity (without condensation)	5...95%
Storage temperature	-30 ... +80 °C
Working temperature	-10 ... +50 °C

Current measurement circuit

Installation category	CAT III 300 V
Nominal current (In)	... / 100 mV ~
Phase current measuring range	2...120% 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	45...65 Hz
Nominal voltage	300V Ph-N, 520V Ph-Ph
Minimum measurement voltage (Vstart)	11 V Ph-N

Communication Network

Protocol	ModBus TCP/IP
Technology / Type	Ethernet

Standards

Electrical safety, Maximum height (m)	2000

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User interface

LED	2 LED
Keyboard	3 keys
Display type	LCD Custom COG

Measurement accuracy

Frequency measurement	0.5 %
Phase current measurement	0,5% ± 1 digit
Reactive power measurement (kvar)	2 % ±2 digits
Apparent power measurement (kVA)	1 % ±2 digits
Active power measurement (kW)	1 % ±2 digits
Phase voltage measurement	0.5% ± 1 digit

Wireless communication

Band	802.11 b/g/n (2.4 GHz.)
Technology / Type	Wi-Fi

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Power analyzer, three-phase DIN rail, wi-fi

CODE	TYPE	Input current	Communications	Protocol
M56470.	CVM-E3-MINI-ITF-WiEth	.../5 A | .../1 A	Ethernet | Wi-Fi	Modbus/TCP
M56480.	CVM-E3-MINI-MC-WiEth	.../250 mA	Ethernet | Wi-Fi	Modbus/TCP
M56490.	CVM-E3-MINI-FLEX-WiEth	Rogowski	Ethernet | Wi-Fi	Modbus/TCP

"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