

CVM-D50-FLEX

CVM-D50-FLEX, Three-phase power analyser with DIN-rail memory

Code: M56590.

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

Description

Three-phase power analyzer (balanced and unbalanced) for assembly on DIN rail, very small, with 4-quadrant measurements and integrated memory for data logging. Main features include: • Current measurement (depending on model) .../5 or.../1 A or.../250 mA or Rogowski-type sensors. • Wi-Fi and Ethernet communications (Modbus TCP/IP). • Integrated memory. • With web Server to view, configure and download data. • Compatible with the MyConfig app. • Sealable with terminal cover. • Display of THD% and up to the 31st harmonic (V, A). • DIN rail format just 3 modules wide. • High-contrast backlit display. • 72 x 72 mm panel mount with front adapter. • Includes an operating-hours and working-hours counter for CAE.

Application

• Control application in distribution panels and low- and medium-voltage connections where an analyzer has to be installed on the DIN rail due to space constraints.
• Alarm control: Maximum value, minimum, delay and programmable interlocking.
• Logging of active or capacitive and inductive reactive energy.
• Capture and storage of instantaneous, maximum and minimum data of the electrical parameters measured.

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Specifications

AC power supply

Installation category	CAT III 300 V
Consumption	3 .... 4 VA
Frequency	50...60 Hz
Nominal voltage	100 ... 240 V~ ± 10 %

DC power supply

Consumption	1,8 ... 2 W
Nominal voltage	100 ... 240 Vd.c. ± 10 %

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)	0,274

Environmental characteristics

Protection class	IP 30 / Front: IP 40|IK08
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)	1000 A / 100 mV ~
Phase current measuring range	10...120% In
Maximum input current consumption	0,9 VA
Minimum current measurement	20 A / 2 mV

Voltage measurement circuit

Installation category	CAT III 300 V
Input impedance	400 kΩ
Frequency measuring range	45...65 Hz
Nominal voltage	230V Ph-N, 400V Ph-Ph
Minimum measurement voltage (Vstart)	11,5 V Ph-N

Communication Network

Protocol	Modbus TCP - Web server
Technology / Interface	Ethernet

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Standards

Electrical safety, Maximum height (m)	2000
Electrical safety, Contamination level/class	2
Standards	IEC/EN 61010-1; IEC/EN 61010-2-030; UNE-EN 55016-2-1; UNE-EN 61000-4-2; UNE-EN 61000-4-20; UNE-EN 61000-4-4; UNE-EN 61000-4-5; UNE-EN 61000-4-6; UNE-EN 61000-4-8; UNE-EN IEC 61000-4-11; UNE-EN 61000-4-3; ETSI-EN 301 489-1 Ver. 2.1.1; ETSI-EN 301 489-17 Ver. 3.1.1; UNE-EN 60068-2-1; UNE-EN 60068-2-2:2008; UNE-EN 60068-2-78; IEC 61557-12; EN 18031-1

User interface

Keyboard	3 keys
Display type	LCD Custom COG

Measurement accuracy

Frequency measurement	0,50%
Phase current measurement	0,5% ± 1 digit (10 ... 120% In)
Active power measurement (kW)	1 % ±2 digit
Phase voltage measurement	0.5% ± 1 digit (5 ... 120 % Un)

Wireless communication

Band	Wi-Fi (2.4 ... 2.5 GHz.)
Technology / Type	Wi-Fi, IEEE 802.11 b/g, IEEE 802.11 n (Up 150 Mbps)

CVM-D50

Din rail three-phase power analyser with memory

CODE	TYPE	Power supply	Input current	Communications	Protocol	Harmonics	Memory
M56570.	CVM-D50-ITF	90...264 Vac/Vdc	.../5 A | .../1 A	Ethernet | Wi-Fi	Modbus TCP/IP	31	Yes
M56580.	CVM-D50-MC	90...264 Vac/Vdc	.../250 mA	Ethernet | Wi-Fi	Modbus TCP/IP	31	Yes
M56590.	CVM-D50-FLEX	90...264 Vac/Vdc	Rogowski	Ethernet | Wi-Fi	Modbus TCP/IP	31	Yes

It has a free configuration App (MyConfig) and WebServer for configuration, visualization and data download

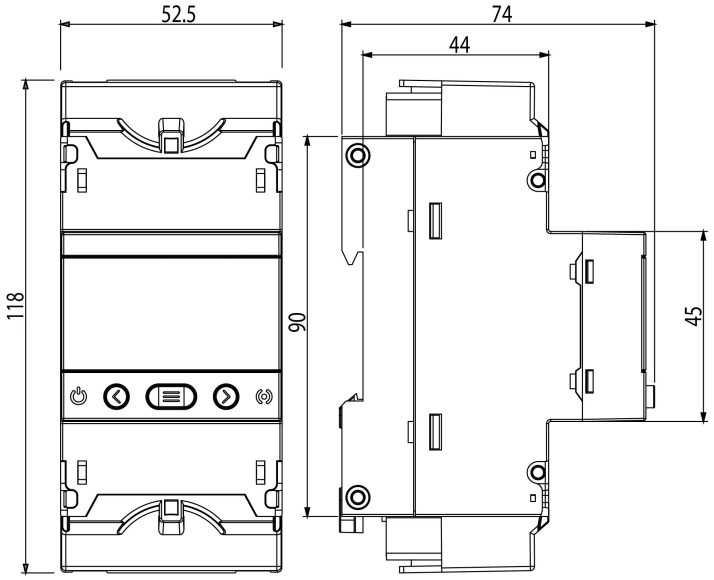


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Dimensions



Connections

