CVM-D50-MC

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

Code: M56580.

> Protocol: Modbus/TCP
> Memory: Yes
> Communications: Ethernet | Wi-Fi
> Harmonics: 31
> Power supply: 90...264 Vac/Vdc
> Input current: .../250 mA
> 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

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.

CVM-D50-MC

Three-phase power analyser with DIN-rail memory

Code: M56580.

Specifications

AC power supply

Installation category	CAT III 300 V
Consumption	2,7 ... 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)	0,25

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)	.../0,250 A
Phase current measuring range	10% ≤ In ≤120% In
Maximum input current consumption	0,9 VA
Minimum current measurement	1 % In

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 / Type	Ethernet

CVM-D50-MC

Three-phase power analyser with DIN-rail memory

Code: M56580.

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

User interface

Keyboard	3 keys
Display type	LCD Custom COG

Measurement accuracy

Frequency measurement	0,50%
Phase current measurement	0,5 % ± 1 digit (10% ≤ I ≤ 100% 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
Three-phase power analyser with DIN-rail 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	31	Yes
M56580.	CVM-D50-MC	90...264 Vac/Vdc	.../250 mA	Ethernet	Wi-Fi	Modbus / TCP	31	Yes
M56590.	CVM-D50-FLEX	90...264 Vac/Vdc	Rogowski	Ethernet	Wi-Fi	Modbus / TCP	31	Yes

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

Creation date: 14/08/2025 - CIRCUTOR, SAU reserves the right to make technical changes or modify the content / images of this document without prior notice, in order to improve its reliability, functionality, design or for other reasons.
It accepts no liability for any errors, inaccuracies or possible lack of information in this document.
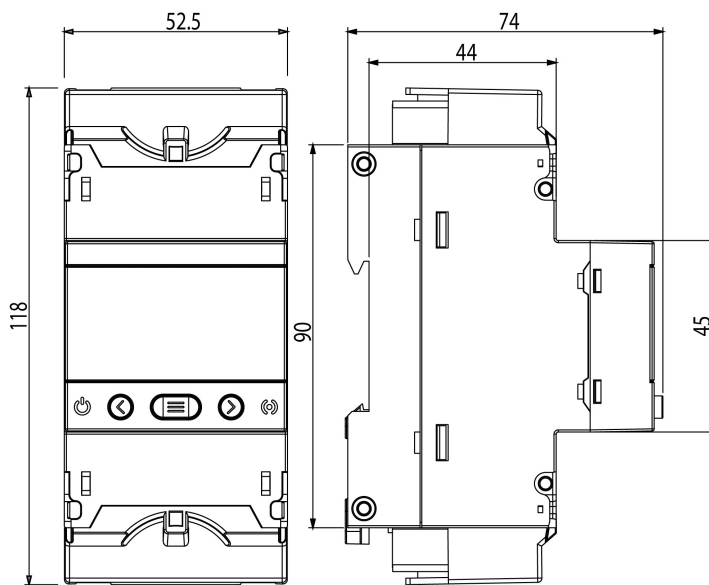
Page 3 of 4

CVM-D50-MC

Three-phase power analyser with DIN-rail memory

Code: M56580.

Dimensions

Connections

4-wire three-phase network
RED trifásica - 4 hilos

Creation date: 14/08/2025 - CIRCUTOR, SAU reserves the right to make technical changes or modify the content/images of this document without prior notice, in order to improve its reliability, functionality, design or for other reasons.
It accepts no liability for any errors, inaccuracies or possible lack of information in this document.

Page 4 of 4