



CVM-E3-MINI-MC-485-IC

CVM-E3-MINI-MC-485-IC, N rail power analyzer

Code: M56424.

- > Protocol: Modbus/RTU | BACnet
- > Communications: RS-485
- > Transistor output: 1
- > Digital inputs: 1
- > Harmonics: 31
- > Power supply (Vac): 207...253 Vac
- > Input current: .../250 mA
- > Mounting: DIN rail

Specifications

AC power supply

Installation category	CAT III 300 V
Consumption	4 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
Differential current measurement	min. 2,5 mm2
Fastening	DIN rail
Weight (kg)	0,29

Environmental characteristics

Protection class	IP 30 / Front: IP 40
Relative humidity (without condensation)	5...95%
Storage temperature	-10 ... +50 °C
Working temperature	-5 ... +45 °C

Current measurement circuit

Installation category	CAT III 300 V
Nominal current (In)	.../0,250 A
Phase current measuring range	2...100% de In
Maximum input current consumption	0,9 VA
Minimum current measurement	0,2 % In

Voltage measurement circuit

Installation category	CAT III 300 V
Input impedance	400 kΩ
Frequency measuring range	45...65 Hz
Voltage measuring range	45...65 Hz



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Three-phase power analyzer for DIN rail

Code: M56424.

Nominal voltage	300V Ph-N, 520V Ph-Ph
Minimum measurement voltage (Vstart)	11 V Ph-N

Communications

Fieldbus (BACnet)	MS/TP
Fieldbus (ModBus)	RS-485
Protocol	ModBus/RTU, BACnet
Speed	ModBus RTU / BACnet: 9600-19200- (V ≥ 2.0.0: 115200) bps

Standards

Electrical safety, Maximum height (m)	2000
Standards	IEC 61010-1, IEC 61010-2-030, IEC 61326-1, IEC 61557-12 , UL94

User interface

LED	2 LED
Keyboard	3 keys
Display type	LCD Custom COG

Digital inputs

Input/output insulation	Optoisolated
Quantity	1
Type	NPN Potential-free contact

Digital transistor outputs

Pulse width	30...500 ms (Programmable)
Type	NPN
Maximum frequency	16 imp / s
Maximum current	50 mA
Maximum voltage	24 Vdc

Measurement accuracy

Frequency measurement	0,50%
Phase current measurement	0,5 % ± 1 digit (10% ≤ I ≤ 100% In)
Reactive energy measurement (kvarh)	Class 2 (2 ... 100% In)
Reactive power measurement (kvar)	class 2 (2 ... 100% In)
Apparent power measurement (kVA)	2 % ±2 digits (2 ... 100% In)
Active energy measurement (kWh)	Class 1 (2 ... 100% In)
Active power measurement (kW)	2 % ±2 digits (2 ... 100% In)
Phase voltage measurement	0.5% ± 1 digit



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Three-phase power analyzer for DIN rail

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CVM-E3-MINI

CODE	TYPE	Input current	Transistor output	Digital inputs	Communications	Protocol
M56414.	CVM-E3-MINI-ITF-485-IC	.../ 5 A .../1 A	1	1	RS-485	Modbus/RTU BACnet
M56424.	CVM-E3-MINI-MC-485-IC	.../ 250 mA	1	1	RS-485	Modbus/RTU BACnet
M56454.	CVM-E3-MINI-FLEX-485-IC	Rogowski	1	1	RS-485	Modbus/RTU BACnet

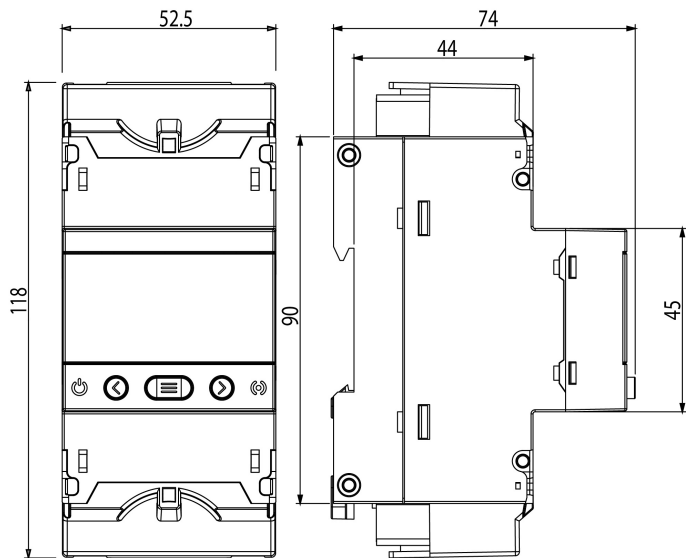


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Three-phase power analyzer for DIN rail

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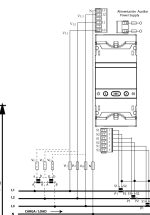
Dimensions



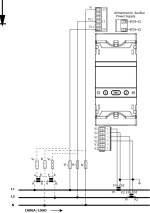
Connections



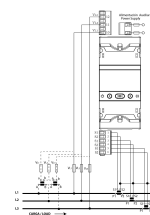
RED trifásica - 4 hilos



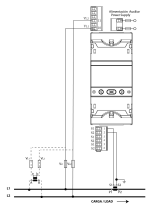
RED bifásica - 3 hilos



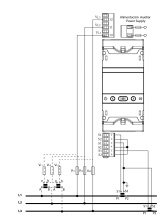
RED trifásica - 3 hilos



RED Fase-fase - 2 hilos



RED trifásica - 3 hilos- ARON



RED Fase-Neutro - 2 hilos

