

CVM-E3-MINI-FLEX-485-IC, rail power analyzer

Code: M56454.

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

Description

Three-phase power analyzer (balanced and unbalanced) for mounting on DIN rail, very compact, with measurements in 4 quadrants.

Other features:

- $\circ~$ Current measurement .../5 or .../1 A or .../250 mA or Rogowski type sensors
- With ITF technology: ITF galvanic insulation protection
- DIN rail with only 3 modules
- High-contrast backlit display
- 72 x 72 mm panel mounting with front adapter
- RS-485 communication (Modbus/RTU up to 19.2 kbps) (Bacnet up to 19.2 kbps)
- One transistor output (programmable)
- $\circ~$ One digital input for selecting tariff or logic states
- Sealable terminal cover
- $\circ~$ Harmonic display (V, A) up to 31° $\,$

Application

- Control application in low- and medium-voltage distribution panels and switchboards where it is necessary to place an analyzer on the DIN rail due to problems of space.
- Alarm control. Maximum value, minimum value and programmable delay.
- Control of active or reactive energy by impulse output.
- Capture of maximum and minimum instantaneous data of electrical parameters measured.

Circutor



Three-phase power analyzer for DIN rail

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Specifications

Installation category	CAT III 300 V			
Consumption	4 VA			
Frequency	5060 Hz			
Nominal voltage	207253 Vc.a.			
Mechanical characteristics				
Size (mm) width x height x depth	52.5 x 118 x 74 (mm)			
Envelope	Self-extinguishing VO plastic			
Differential current measurement	min. 2,5 mm2			
Fastening	DIN rail			
Weight (kg)	0,28			
nvironmental characteristics				
Protection class	IP 30 / Front: IP 40			
Relative humidity (without condensation)	595%			
Storage temperature	-10 +50 °C			
Working temperature	-5 +45 °C			
Current measurement circuit				
Installation category	CAT III 300 V			
Nominal current (In)	1000 A / 100 mV			
Phase current measuring range	10 120% de In			
Maximum input current consumption	0,9 VA			
Maximum current	1200 A / 120 mV			
	20 A / 2 mA			
Minimum current measurement	20 A 7 2 IIIA			
Minimum current measurement /oltage measurement circuit	20 A / 2 IIIA			
	CAT III 300 V			
/oltage measurement circuit				
/oltage measurement circuit Installation category	CAT III 300 V			
Voltage measurement circuit Installation category Input impedance	CAT III 300 V 400 kΩ			
/oltage measurement circuit Installation category Input impedance Frequency measuring range	CAT III 300 V 400 kΩ 4565 Hz			
Voltage measurement circuit Installation category Input impedance Frequency measuring range Nominal voltage	CAT III 300 V 400 kΩ 4565 Hz 300V Ph-N, 520V Ph-Ph			
Voltage measurement circuit Installation category Input impedance Frequency measuring range Nominal voltage Minimum measurement voltage (Vstart)	CAT III 300 V 400 kΩ 4565 Hz 300V Ph-N, 520V Ph-Ph			





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User interface

LED	2 LED
Keyboard	3 keys
Display type	LCD Custom COG

Digital inputs

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

Digital transistor outputs

Pulse width	30500 ms (Programmable)		
Туре	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
Reactive energy measurement (kvarh)	Class 3
Reactive power measurement (kvar)	2 % ±2 digits
Apparent power measurement (kVA)	1 % ±2 digits
Active energy measurement (kWh)	Class 2
Active power measurement (kW)	1 % ±2 digits
Phase voltage measurement	0.5% ± 1 digit

Serial communication

Protocol	ModBus/RTU, BACnet	
Technology / Type	RS-485 / BACnet	

CVM-E3-MINI

Power analyzer, three-phase DIN rail

CODE	ТҮРЕ	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

"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"

Circutor



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Dimensions

Connections

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