



computer SMART III Fast 12

computer SMART III Fast 12, Power factor regulator

Code: R13962.

- > Alarm relay: Yes
- > Communications: RS-485
- > Measurement Range (V): 100...520
- > IΔn (A): yes
- > Power supply (Vac): 100...520 Vac
- > Nr steps: 12
- > Input current: .../5A | .../1A
- > Switching unit: EMF / EMB

Specifications

AC power supply

Installation category	CAT III 300 V
Consumption	9 ... 15 VA
Frequency	50 ... 60 Hz
Nominal voltage	100 ... 520 V ~

Mechanical characteristics

Size (mm) width x height x depth	144 x 144 x 71 (mm)
Envelope	Plastic V0 self-extinguishing
Fastening	Panel
Weight (kg)	0,545

Environmental characteristics

Protection class	IP 51 (Front), IP 31 (unmounted)
Relative humidity (without condensation)	5 ... 95%
Storage temperature	-20 ... +70 °C
Working temperature	-10 ... +55 °C

Current measurement circuit

Installation category	CAT III 300 V
Nominal current (In)	.../5A ó .../1A
Phase current measuring range	1 ... 120 % In
Minimum current measurement	50 mA

Voltage measurement circuit

Installation category	CAT III 300 V
Sampling frequency	45 ... 65 Hz
Input impedance	660 kΩ
Frequency measuring range	45 ... 65 Hz
Voltage measuring range	20...300 V Ph-N , 35...520 V Ph-Ph
Nominal voltage	230 V Ph-N, 400 V Ph-Ph

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Minimum measurement voltage (Vstart)		20 V F-N, 35 V F-F	
Communications			
Fieldbus (ModBus)		RS-485	
Protocol		Modbus RTU	
Type		CPC-NET / RS-485	
Speed		RS-485: 9600-19200 / CPC-NET: 9600-19200-38400	
Standards			
Electrical safety, Maximum height (m)		2000	
Standards		IEC 61010, IEC 61000, IEC 61000-6-2, IEC 61000-6-4, Medidas conforme a : IEC 61557-12	
User interface			
LED		4 LED	
Keyboard		Capacitive, 5 keys	
Display type		LCD Custom COG	
Digital inputs			
Input/output insulation		Optoisolated	
Quantity		2	
Type		Potential-free contact	
Leakage current measurement (ID)			
Secondary nominal current		0,003 A	
Minimum current measurement (Istart)		10 mA	
Measurement range		0,01 ... 1,5 A	
Other digital transistor outputs			
Quantity		2	
Type		NPN	
Maximum current		50 mA	
Maximum voltage		24 Vcc	
Digital relay outputs			
Quantity		2 (ventilador, alarma)	
Maximum current		1A	
Maximum open contact voltage		1 kV	
Electrical life		30 x 10 ³ ciclos	
Mechanical life		5 x 10 ⁶ Cycles	
Maximum switching capacity		2500 VA	



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Digital transistor outputs

Quantity	6
Type	Opto MOSFET
Maximum current	150 mA
Maximum voltage	24 Vcc

Measurement accuracy

Phase current measurement	0.5% ± 1 digit
Reactive energy measurement (kvarh)	Class 1
Reactive power measurement (kvar)	1% ± 2 digit
Active energy measurement (kWh)	Class 1
Active power measurement (kW)	0.5% ± 2 digits
Phase voltage measurement	0.5% ± 1 digit

computer SMART III-Fast

CODE	TYPE	Switching unit	Nr steps	Input current
R13953.	computer SMART III F6-12Vdc	EMB-2PH	6	.../5A .../1A
R13964.	computer SMART III F12-12Vdc	EMB-2PH	12	.../5A .../1A
R13951.	computer SMART III Fast 6	EMF / EMB	6	.../5A .../1A
R13962.	computer SMART III Fast 12	EMF / EMB	12	.../5A .../1A



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Dimensions



Connections

