



computer SMART III F12-12Vdc

computer SMART III F12-12Vdc, Power factor regulator

Code: R13964.

- > 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: EMB-2PH

Specifications

AC power supply

Installation category	CAT III 300 V
Consumption	13 ... 20 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)	0,44

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	RS-485
Speed	9600-19200

Standards

Electrical safety, Maximum height (m)	2000
Standards	IEC 61010, IEC 61326-1, 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	12
Type	Voltage output (dc)
Maximum current	15 mA
Maximum voltage	12 ± 1 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

Digital transistor outputs



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Quantity	2
Type	NPN
Maximum current	50 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

