

computer SMART III 12, Power factor regulator

- Code: R13862.
- > Alarm relay: Yes
- > Communications: RS-485
- > Measurement Range (V): 20...300
- > I∆n (A): yes
- > Power supply (Vac): 100...520 Vac
- > Nr steps: 12
- > Input current: .../5A | .../1A
- > Switching unit: Contactor

Description

Measurement with three current transformers guarantees an analogue reading of the company meter. The **Computer SMART III** reactive energy regulator is the only regulator on the market that offers the possibility of using 3 measurement transformers in addition to the conventional method of measuring with a single current transformer, as well as providing the functions of an integral power analyzer and controlling residual leakage currents (**WG** series current transformers).

Computer SMART III is a regulator that ensures excellent preventive maintenance by means of programming its alarms and the options for testing the capacitor status, offering maximum supervision and safety of your compensation unit.

Application

The connection of 1 or 3 transformers makes **Computer SMART** III the perfect regulator in any installation, allowing the following:

- \circ Changing from 1 to 3 transformers in the following cases:
 - Changes in reactive energy penalties
 - Changes in consumption habits
 - $\,\circ\,$ Significant imbalances in the system
- Replacing the regulator of any capacitor bank
- $\circ~$ Perfect for installations with up to 4 objective cos $\phi,$ since it can adapt to any compensation need (different time periods).
- It can be used with Medium Voltage compensation units.

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Specifications

C power supply			
Installation category	CAT III 300 V		
Consumption	13 20 VA		
Frequency	50 60 Hz		
Nominal voltage	100 520 V ~		
echanical characteristics			
Size (mm) width x height x depth	144 x 144 x 71 (mm)		
Envelope	Plastic VO self-extinguishing		
Fastening	Panel		
Weight (kg)	0,6		
nvironmental 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		
urrent measurement circuit			
Nominal current (In)	/5A ó/1A		
Phase current measuring range	1120 % In		
Minimum current measurement	50 mA		
oltage 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	20300 V Ph-N , 35520 V Ph-Ph		
Nominal voltage	230 V Ph-N, 400 V Ph-Ph		
Minimum measurement voltage (Vstart)	20 V F-N, 35 V F-F		
andards			
Electrical safety, Maximum height (m)	2000		
Standards	IEC 61010, IEC 61000-6-2, IEC 61000-6-4, Medidas conforme a : IEC 61557-12		
ser interface			
LED	4 LED		
Keyboard	Capacitive, 5 keys		
Display type	LCD Custom COG		





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Digital inputs

Input/output insulation	Optoisolated		
Quantity	2		
Туре	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		
Digital relay outputs			
Quantity	14 (12 salidas, 1 ventilador, 1 alarma)		
Maximum current	1A		
Maximum open contact voltage	1 kV		
Electrical life	30×10^3 ciclos		
Mechanical life	5 x 10 ⁶ Cycles		
Maximum switching capacity	2500 VA		
Digital transistor outputs			
Quantity	2		
Туре	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 nower measurement (kvar)	1% + 2 digit		

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

Serial communication

Protocol	Modbus RTU
Technology / Type	RS-485

computer SMART III

Three-phase Power factor controllers. Regulation, measurement, leakage control and communications

CODE	ТҮРЕ	Switching unit	Nr steps	Input current
R13851.	computer SMART III 6	Contactor	6	/5A /1A



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CODE	ТҮРЕ	Switching unit	Nr steps	Input current
R13862.	computer SMART III 12	Contactor	12	/5A /1A
R13864.	computer SMART III 14	Contactor	14	/5A /1A



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Dimensions

Connections

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