

# Computer SMART III



## Smart Power Factor regulator

### 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.

**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:

- Changing from 1 to 3 transformers in the following cases:
  - Changes in reactive energy penalties
  - Changes in consumption habits
  - Significant imbalances in the system
- Replacing the regulator of any capacitor bank
- 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.

### Technical features

<b>Voltage circuit</b>	Power supply voltage	100...520 Vac
	Tolerance	10%
	Consumption	10...18 VA (depending on the type)
	Frequency	50...60 Hz
<b>Measurement circuit</b>	Measurement voltage	35...520 Vac Ph-Ph 20...300 Vac Ph-N
	Current measurement	x1 or x3 transformers .../5 A or .../1 A
<b>Leakage current</b>	Measurement range	$I_{\Delta prim} = 10 \text{ mA} \dots 1.5 \text{ A AC}$
	Current transformers	<b>WGS</b> series
<b>Accuracy</b>	Voltage and Current	0.5% $\pm 1$ digit
	Active power measurement	0.5% $\pm 2$ digit
<b>Temperature measurement</b>	Configuration range	0...80 °C
<b>Output relay</b>	No. of relays	6 or 14, depending on the type
	$I_{max}$ (operation)	1 A
	$U_{max}$ Open contacts	1 kV
	Maximum switching power	2500 VA
<b>Digital outputs</b>	No. of outputs	2
	Type	NPN transistor
	$U_{max}$ and $I_{max}$ (operation)	24 Vdc /50 mA
<b>Digital inputs</b>	No. of inputs	2
<b>Alarms</b>	No. of alarms	17, fully configurable
<b>Communications</b>	Port	RS-485
	Protocol	Modbus / RTU
<b>Environmental features</b>	Operating temperature	-10 °C...+55 °C
	Relative humidity	5...95% without condensation
	Maximum altitude	2,000 m
<b>Control system</b>	<b>PFC</b> (Program that minimises the number of operations)	
<b>Safety</b>	Insulation	Category III Class II <b>EN 61010-1</b>
	Protection degree	IP31 IP51 Front panel
<b>Standards</b>	<b>IEC 62053-23</b> (2003-01), <b>IEC 61326-1</b> , <b>EN 61010-1</b> , <b>UL 508</b>	

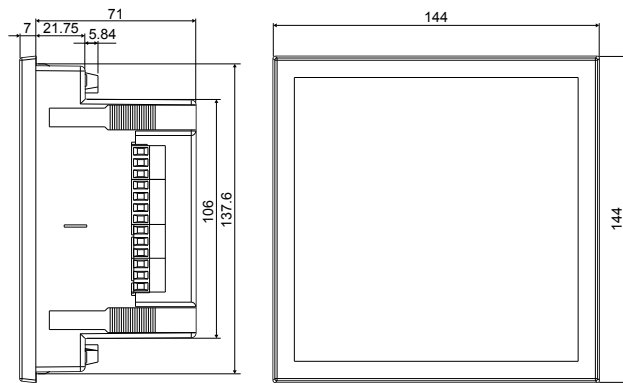
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### References

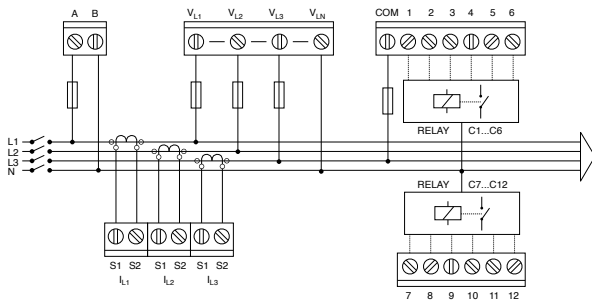
Type	Code	No. relays
Computer Smart III 6	R13851	6
Computer Smart III 12	R13862	12
Computer Smart III 14	R13864	14

### Dimensions

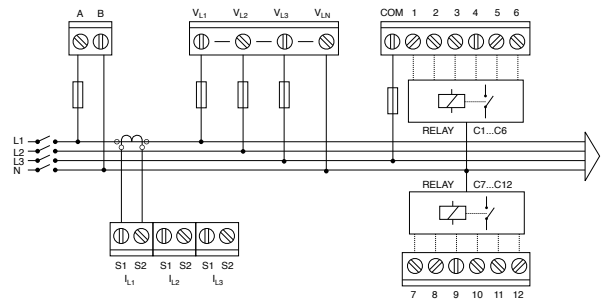


### Connections

Connection of 3 phases + neutral  
3 current transformers



Connection of 3 phases + neutral  
1 current transformer



Connection of 2 phases +  
1 current transformer

