## HPR

## **Electronic Controllers**

Tyrystor (on request)

90 - 550 Vac

50/60Hz

4 quadrant

EC 61010-1; IEC 61006-2; IEC 61006-4: level B

Low voltage 2014/35/EC Electromagnetic

6012

IEC 61326-1; UL 61010.

compatibility: 2014/30/EC.

3 VA Relay



The HPR contioller is able to guarantee accurate measurement and piocessing of the main electrical quantities. The capacitor steps are self-configurable, minimising initial configuration need.

## **TECHNICAL DATA**

- CT ratio programmable from 1 to 9600 (i.e. CT up to 48000 / 5 A or 9600 / 1 A)
- Current and voltage measurement with true rms value
- THD% measurement in current, up to the 19th odd harmonic
- Measurement of  $\cos \phi$  between voltage and current using the fundamental waveform
- Operation in Manual or Automatic
- Digital input: choice between  $\cos\phi 1$  and  $\cos\phi 2$  target, external alarm / low current signalling
- Temperature sensor: internal NTC
- Alarm memory: last ten alarms
- RS485 serial output with Modbus-RTU protocol

Voltage measurement out of tolerance, Low/high current alarm<5mA and >6A -Target correction not reached, Bank power loss below 75% THDu and THD thresholds exceeded, Max operating hours reached, Max. inserts and hours reached by each bank

**PERFORMANCE DATA** 

Rated frequency

Power consumption

Operating mode

Stage outputs

voltage

Output

QUALITY

Regulations

European Directives

Supply and measuring

Cosφ, VL-L, VL-N, I, Power Factor, ambient temperature, THD% in voltage and current, maximum values (temperature, voltage, THD), powers (active, reactive and apparent), no. of bank insertions. It can also provide useful alerts for maintenance, such as power loss on banks, number of insertions, actual working time of capacitor banks.

The unit is equipped with a backlit LCD display to ensure easy reading of data in all environmental conditions; capacitor bank status, MAN/AUT, IND/CAP line status

Automatic 2 or 4 quadrant / Manual. 0.015 .. 6 A, power consumption < 1 VA, CT ratio 1 ... 9600. From + 0.7 (inductive) to -0.7 (capacitive). 5 A / 250 Vac; 1 A / 400 Vac. IP 41 (with IP 54 cover) front; IP 20 rear. -20 / + 70 °C -40 / + 85 °C



## MODELS

Code	Туре	Stage Outputs	Dimensions
			bxhxp
75993061	HPR 6 - MB (ModBus)	6	144 × 144 × 58
75993121	HPR 12 - MB (ModBus)	12	144 × 144 × 58



Main features

- Automatic initialisation
- Automatic detection and disconnection of defective stages

Display / LED

Displayed quantities

Alarms

Operation Amperometric input P.F. setting Relay contacts Degree of protection Operating temperature Storage temperature