

BMR 6

Power Factor Controller



PERFORMANCE DATA

- Supply and measurement voltage **380–415 Vac**
(on request 230V)
- Rated frequency **50 / 60 Hz settable**
- Power absorbed **5 VA**
- Capacitor Bank insertion time **Adjustable**
- Insertion logic **According to the requested power**

QUALITY AND TESTING

- Regulations** EN 61000-6-1; EN 61000-6-2; EN 61000-6-3
EN 61000-6-4; EN 60335-1
- European directives** Low voltage: 2014/35/CE;
Electromagnetic compatibility: 2014/30/CE.

The **BMR 6** series of microprocessor-based power factor controllers has been designed to accurately control the electrical magnitudes of the system, such as voltage, current, power factor, current harmonic distortion rate, as well as the ambient temperature and the different powers.

TECHNICAL DATA

Main features	<ul style="list-style-type: none"> - Primary current setting from 5 A to 10000 A - Measure of $\cos\phi$ on fundamental voltage - current - THDI% threshold setting max - Ventilation intervention threshold setting (FAN) - Over temperature threshold setting - Setting of the adjustment factor from 0,85 IND to 0,95 CAP - Kvar setting for each battery from 0.1 to 6000 - Setting the reconnection time (from 5 to 240s) - Setting of the rated voltage of the capacitors (from 80 to 650V standard pitch) - Setting delayed intervention sensitivity - Setting of delayed and instantaneous THD intervention
Alarms	Voltage and current (Max. And min.), Below / over-compensation, harmonic distortion threshold exceeded, temperature measured above the set limit.
Displayed values	$\cos\phi$, Vrms, Irms, Room temperature, missing kvar, THDI%, Active power, Reactive power, Apparent power, THDI(max), Vrms MAX, Irms(max), T(max), P(max), Q(max), e A(max).
Display / LED	The unit is equipped with a 16-character LCD display with 2 back-lit lines, for easy data reading in all environmental conditions; Status of capacitor banks, MAN / AUT, line status IND / CAP.
Functioning	Automatic with 2 or 4 quadrants / Manual.
Amperometric input	0,3 – 5,5A 5,5A by standard TA / 5A
Voltmetric input	- 40 /+ 10% of the rated voltage (max. 525V).
P.F. regulation	From + 0,85 (inductive) to -0,95 (capacitive).
Relay contacts	8 A / 250 Vac, max. switching 440 V.
Degree of protection	IP 41; with cover IP 54 (on request).
Operating temperature	-20 / + 55 °C
Storage temperature	-30 / + 60 °C



CONFIGURATIONS

Table

Code	Type	N° controllable Banks	Dimensions b x h x p
7591690	BMR6	6	96 x 96 x 75
7591685	BMR6 + RS 485*	6	96 x 96 x 75

*Communication protocol MODBUS RTU