

BMR 4

Power Factor Controller



The **BMR 4** 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.

PERFORMANCE DATA

■ Supply and measurement voltage	380 – 415 Vac (on request 230V)
■ Rated frequency	50 / 60 Hz settable
■ Power absorbed	3 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.

TECHNICAL DATA

Main features

- 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

$\cos\phi$, V_{rms} , I_{rms} , Room temperature, THDI%, ΔQ , target $\cos\phi$, sampling time measurement.

Display / LED

LED with 4-digit 7-segment display, to ensure easy data reading in all environmental conditions; Status of capacitor banks, MAN / AUT, line status IND / CAP, alarms, ...

Functioning

Automatic with 2 or 4 quadrants / Manual.

Amperometric input Voltmetric input

0,3 – 5,5A by standard TA / 5A.
– /+ 10% of the rated voltage.

P.F. regulation

From + 0,85 (inductive) to -0,95 (capacitive).

Relay contacts

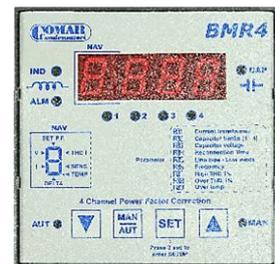
5 A / 250 Vac, max. switching 440 V.

Degree of protection

IP 41; with cover IP 54 (on request).

Operating temperature Storage temperature

-20 / + 55 °C
-30 / + 60 °C



CONFIGURATIONS

Table

Code	Type	N° controllable Banks	Dimensions b x h x p
7591600	BMR4	4	96 x 96 x 60