



The **BMR 4** series of microprocessor-based power factor controllers is designed for the accurate control of electrical quantities in the system, such as voltage, current, power factor, current harmonic distortion rate, as well as ambient temperature and different powers.

PERFORMANCE DATA

- Supply and measuring voltage 400 Vac ±10% (230V on request)
- Frequency 50 / 60 Hz settable
- Power consumption 3 VA
- Output Relay
- Operating mode 2 or 4 quadrant
- Stage outputs 4

QUALITY

- 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/ EC Electromagnetic compatibility: 2014/30/EC.

TECHNICAL DATA

Main features

- Primary current setting from 5 A to 10000 A
- Measuring cosφ on fundamental voltage - current
- Threshold setting THDI% max
- Setting the ventilation intervention threshold (FAN)
- Over-temperature threshold setting
- Setting the adjustment factor from 0.85 IND to 0.95 CAP
- Setting the kvar for each individual bank from 0.1 to 6000
- Setting the reconnection time (5 to 240s)
- Setting the rated capacitor voltage (80 to 650V standard step)
- Delay intervention sensitivity setting
- Delay and instantaneous intervention setting THD

Alarms

Voltage and current ( max. and min.), under/over-correction harmonic distortion threshold exceeded measured temperature above set limit.

Displayed value

Cosφ, Vrms, Irms, ambient temperature, THDI%, ΔQ, target cosφ, measurement sampling time.

Display / LED

The unit has a 4-digit, 7-segment LED display to ensure easy reading of data in all environmental conditions; capacitor bank status, MAN/AUT, IND/CAP line status, alarms,...

Operation

Automatic with 2 or 4 quadrants / Manual.

Amperometric input

0.3 - 5.5A from standard CT / 5A.

P.F. setting

From + 0.85 (inductive) to -0.95 (capacitive).

Relay contacts

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

Degree of protection

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

Operating temperature

-20 / + 55 °C

Storage temperature

-30 / + 60 °C



MODELS

Code	Type	Stage Outputs	Dimensions b x h x p
7591600	BMR4	4	96 x 96 x 60