

The **BMR 6** 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)
Rated frequency	50 / 60 Hz settable
Power consumption	3 VA
Output	Relay
Operating mode	2 or 4 quadrant
Stage outputs	6

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 THD(I)% 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)
- Delayed intervention sensitivity setting
- Delayed and instantaneous intervention setting THD

Alarms

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

Displayed values

Cosφ, Vrms, Irms, ambient temperature, lacking kvar, THD(I)%, active power, reactive power, apparent power, THD(I)(max), Vrms MAX, Irms(max), T(max), P(max), Q(max), and A(max).

Display / LED

The unit has a 16-character 2-line backlit LCD display for easy reading of data in all environmental conditions; capacitor bank status, MAN/AUT, IND/CAP line status.

Operation

Automatic with 2 or 4 dials / Manual.

Amperometric input

0.3 - 5.5A from CT with secondary of 5A.

P.F. setting

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

Relay contacts

8 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
7591690	BMR6	6	96 x 96
7591685	BMR6 + RS 485*	6	96 x 96

*MODBUS RTU communication protocol