BMR 4

Electronic Controllers



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%
Frequency	50 / 60 Hz settable
Power consumption	3 VA
Output	Relay
Operating mode	2 or 4 quadrant
Stage outputs	4

QUALITY

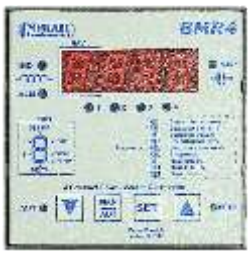
Regulations	EN 61000-6-1; EN 61000-6-2; EN 61000-6-3 EN 61000-6-4; EN 60335-1
European Directives	Low voltage: 2014/35/EC; Electromagnetic compatibility: 2014/30/EC.

TECHNICAL DATA

Main features

- Primary current setting from 5 A to 10000 A
- Measuring cosϕ on fundamental voltage - current
- Threshold setting 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)
- 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, THD(I)%, 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 CT with secondary of 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