



Product Brief 2011

# Power Factor Correction

PF Controller BR6000-T V5.0

The PF controller BR6000-T is designed especially for dynamic PFC where capacitors are switched by thyristor modules. Its very fast processor allows extremely short switching times to be achieved – mandatory when dealing with fast-changing loads (min. switching time 20 ms).

Applications for dynamic PFC:

- Welding/spot welding equipment
- Machine presses
- Wind turbine generators
- Container cranes
- Elevators
- Motor start up compensation
- Any fast changing load

BR6000-T front panel controls

Operating mode:

- Automatic
- Programming
- Manual operation
- Service
- Expert mode



Enter / OK

Confirm and store values



Increase selected parameter



Reduce selected parameter



# PQS



# PF Controller BR6000-T V5.0

## Features and benefits

- 6 and 12 steps available
- Intelligent control
- Menu-driven user interface in plain language: CZ/DE/EN/ES/FR/NL/PL/PT/RU/TR
- Large multifunctional LCD (2 x 16 characters), graphic and alphanumeric
- Display of
  - System voltage (V AC)
  - Reactive power (kvar)
  - Active power (kW)
  - Frequency (Hz)
  - Apparent power (kVA)
  - Apparent current (A)
  - Temperature (°C)
  - Real-time  $\cos \varphi$
  - Target  $\cos \varphi$
  - kvar value to target  $\cos \varphi$
  - Programmable 2<sup>nd</sup> alarm relay
- Alarm output:
  - Insufficient compensation
  - Overcompensation
  - Undercurrent
  - Overcurrent
  - Overtemperature
  - Programmable threshold value
  - Internal error storage
- Direct triggering of TSM series of thyristor modules
- Self-optimizing control capability
- Enhanced operating voltage range from 110 to 230 V AC
- Enhanced measuring voltage range from 30 to 525 V AC
- Recall function of recorded values
- Four-quadrant operation (e.g. standby generator)
- Powerful alarm output
- 2<sup>nd</sup> parameter set available
- 20 pre-programmed control series and control series editor
- Detailed expert modes
- Detailed fault messages
- Manual/automatic operation
- RS485 interfaces optional

## Available versions and ordering codes

BR6000-T6	6 transistor outputs, 1 alarm relay	B44066R6106E230
BR6000-T12	12 transistor outputs, 1 alarm relay, 1 additional user programmable message relay, input for second parameter set	B44066R6112E230
BR6000-T12/S485	Additional RS485 interface	B44066R6412E231

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