EPCOS Product Brief 2011

Power Factor Correction

Controller BR6000-T6R6 V5.0 for Power Quality Solutions

The BR6000-T6R6 power factor controller is the logical extension of the BR6000 series with innovative ideas and many new functions. With 6 relay and 6 transistor outputs, it is ideally suited for use in mixed PFC systems, i.e. standard and dynamic systems in which both rapidly and slowly changing loads need to be switched. The 6 transistor outputs can switch thyristor modules within <20 ms whereas the relay outputs perform the same function for the capacitor contactors. From version V5.0 onwards, the menu-controlled display offers plain text in 10 languages and variety features and benefits.

- 6 transistor outputs for direct triggering of thyristor modules TSM series for dynamic compensation
- 6 relay outputs for direct triggering of capacitor contactors for conventional compensation
- Intelligent behavior that logically combines both types of control of the output steps
- Self-optimizing control capability
- Large measuring voltage range
- Menu driven handling
- Languages: CZ/DE/EN/ES/FR/NL/PL/PR/RU/TR
- Recall function of recorded values (V_{max}, kvar, kW, kVA, °C)
- Four-quadrant operation (e.g. standby generator)
- Powerful alarm output
- Control series editor (value perception selectable)
- 2nd target power factor
- Interface RS485 optional

PQS

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PF Controller BR6000-T6R6 V5.0

Features and benefits

- Measurement voltage range: 30 ... 525 V AC (L-N) or (L-L)
- Operating temperature: –20 ... +60 °C
- Storage temperature –20 ... +75 °C
- Large and multifunctional LCD (2 × 16 characters)
- Graphic and alphanumeric
- LCD illumination

Measuring values

- System voltage (V AC)
- Reactive power (kvar)
- Active power (kW)
- Frequency (Hz)
- Apparent power (kVA)
- Apparent current (A)
- Temperature (°C / °F)
- Real-time cos φ
- Target cos φ
- kvar value to target cos φ
- Display of values also as percentage
- Insufficient compensation
- Overcompensation
- Undercurrent
- Over current
- Over temperature

Threshold value programmable

- Maximum voltage, V_{max}
- Maximum reactive power, Q (kvar)
- Maximum active power, P (kW)
- Maximum apparent power, S (kVA)
- Maximum temperature, (°C)
- Internal error storage
- 2^{nd} signal relay random
- Triggering time programmable

Compatible to updated BR-SOFT V5.0 for Windows operating system

- Simultaneous connection of several BR6000-T6R6/ S485 with a PC
- Comfortable visualization, display and recording of all grid parameters by using a PC
- Further processing of recorded data (export as Excel file)
- Graphical analysis and evaluation of data directly in the program
- Read-out and editing, recording and read-in of all BR6000 parameters
- Comfortable online operation of the BR6000-T6R6 by PC

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