

Power Factor Correction

Controller BR7000 for Power Quality Solutions

The new power factor controller BR7000 is a follow-up development of the well-proven BR6000 series and offers a broad range of new characteristics and benefits. It can be used as a PF controller as well as a grid measuring device.

The BR7000 features 15 relay outputs for the steps and three message/ alarm relays. These 15 outputs are programmable for different applications, for example:

- 15 conventional steps, each for one three-phase capacitor.
- 15 steps for single-phase capacitors. Each output will switch a single-phase capacitor to N, usually 5 per phase, balancing of the grid is possible.

- Mixed operation, e.g. 6 single-phase capacitors (2 per phase) for balancing plus 9 steps for conventional compensation (three-phase capacitors).

The direct connection to a USB port of a PC via USB-adaptor (Interface RS485) offers further benefits with the Windows software BR-Soft. The program allows a convenient visualization of grid parameters, analysis of recorded values and the graphical evaluation of all data received. Administration of several PF controllers is another advantage.

PF Controller BR7000

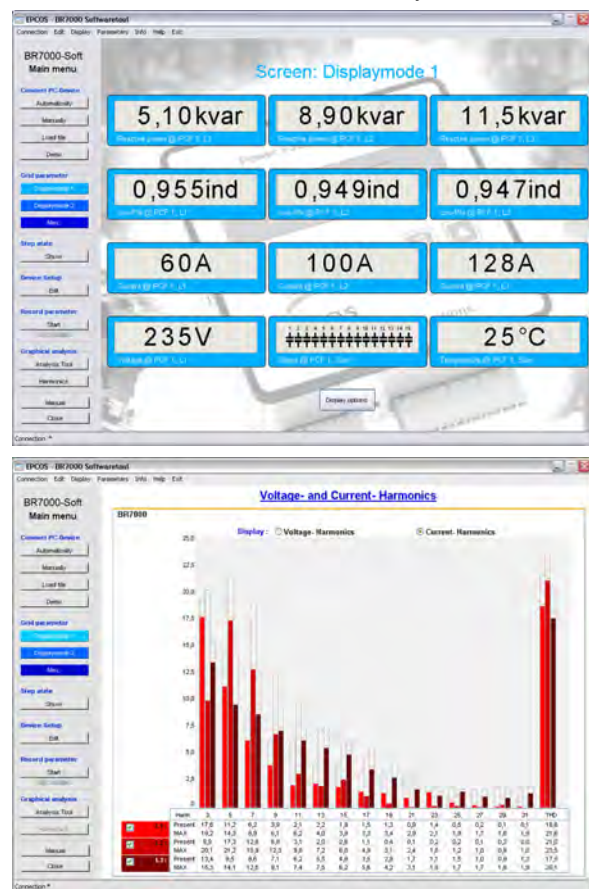
Features and benefits

- Three-phase measuring and controlling
- Operating voltage range 110 ... 230 V AC
- Enlarged measuring voltage range:
3 • 30 ... 440 V AC (L-N) / 690 V AC (L-L)
- Measuring current: 3 • X:1A / X:5A
- LCD full graphic display: 128 x 64 dots, 8 lines
- Self explanatory menu navigation in several languages
- HELP-button for interactive help text
- 15 switching outputs
- Three additional alarm/ message relays
- Two isolated interfaces
- Detailed error messages with time stamp
- Automatic initialization/ test run
- Automatic and manual operation, service operation, expert mode
- Three-phase and single-phase controlling, mixed mode possible
- Display and storage of maximum values, switching operations and operating time
- Display of date and time
- Time-controlled functions possible by internal timer
- Oscilloscope mode for graphical display
- Quick programming
- Panel-mounted instrument
- Dimensions: 144 x 144 x 60 mm
- Three-phase measuring and display of following grid parameters:
voltage, current, frequency, real power, reactive power, apparent power, power factor, missing reactive power, harmonic of voltage and current (up to 31st), THD-V, THD-I, temperature

Ordering code: B44066R7415E230

Accessory for BR7000: BR-Soft

- Connection to RS485-bus
- Administration of several PF controller possible
- Convenient analysis of recorded values
- Direct connection to USB port of PC via USB-adaptor
- CD-ROM included in the delivery



BR-Soft for PC operating system Windows.

Important information: Some parts of this publication contain statements about the suitability of our products for certain areas of application. These statements are based on our knowledge of typical requirements that are often placed on our products for a particular customer application. It is incumbent on the customer to check and decide whether a product is suitable for use in a particular application. This Product Brief may be changed from time to time without prior notice. Our products are described in detail in our data sheets. The Important Notes (www.epcos.com/ImportantNotes) and the product specific warnings and cautions must be observed. All relevant information is available through our sales offices.