查询BR6000-R12供应商



Film capacitors – Power Factor Correction

Key components – PF controller

4

Series/Type: Ordering code:

Date: Version: BR6000 V5.0 B44066R6...E230 May 2009

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Characteristics

- Intelligent control
- Menu driven handling (plain language; Czech/Dutch/German/English/French/Polish/ Portuguese/Russian/Spanish)
- Self-optimizing control capability
- Automatic initialization
- Test-run possible
- Large voltage measuring range
- Recall function of recorded values
- Four-quadrant operation (e.g. stand by generator)
- Powerful alarm output
- 2nd parameter set
- 13 steps possible with version /F and /S
- Control series editor
- Detailed expert modes

Features

Display	- Large and multifunctional LCD (2 × 16			
	characters)			
	- Graphic and alphanumeric			
	- LCD illumination			
System parameters displayed	 System voltage (V AC) 			
	 Reactive power (kvar) 			
	- Active power (kW)			
	- Frequency			
	 Apparent power (kVA) 			
	 Apparent current (A) 			
	- Temperature (°C)			
	- Real-time cos phi			
	- Target cos phi			
	 kvar value to target cos phi 			
	- Harmonics (3rd 19th) V (%), I (%)			
Alarm output	 Insufficient compensation 			
	- Overcompensation			
	- Undercurrent			
	- Overcurrent			
	- Overtemperature			
	- Harmonics			
	- Threshold value programmable			
	- Internal error storage			
	- 2 nd signal relay random			



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Recall recorded values	- Maximum voltage (V _{max})			
	- Maximum reactive power, Q (kvar)			
	- Maximum active power, P (kW)			
	 Maximum apparent power, S (kVA) 			
	- Maximum temperature (°C)			
	- Maximum THD-V/THD-I			
	 Switching cycles of capacitors 			
	- Operation time of capacitors			

Technical Data

Weight	1 kg				
Case	Panel-mounted instrument, 144 × 144 × 55 mm				
	(cut out 138 × 138 mm)				
Ambient conditions					
- Over-voltage class	Ш				
- Pollution degree	2				
- Operating temperature	–20 °C +60 °C				
- Storage temperature	–20 °C +75 °C				
- Sensitivity to inference (industrial areas)	EN 55082-2.1995				
- Spurious radiation (residential areas)	EN 55011 10.1997				
- Safety guidelines	IEC 61010-1:2001 EN 61010-1:2001				
- Mounting position	Any				
- Humidity class	15% 95% without dew				
Protection class					
- Front plate	IP54 to IEC60529				
- Rear side	IP20 to IEC60529				
Operation					
- Supply voltage	110230 V AC ±15%, 50/60 Hz				
- Target cos phi	0.3 ind 0.3 cap.				
- Switching and discharge time range	1 sec 20 min				
- Number of control series	20 series preset + control series editor for free programming				
- Control modes	Series switching (LIFO), circular switching (FIFO), self-optimized intelligent control mode				

FK PC PM PFC

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Measurement					
- Measurement voltage range	30 525 V AC (L–L / L–N)				
- Fundamental frequency	50 and 60 Hz				
- Measurement current (CT)	x/5 and x/1 Ampere possible				
- Minimum operating current	40 mA / 10 mA				
- Maximum current	5.3 A (sinusoidal)				
- Zero voltage release	< 15 ms				
- Accuracy	Current, voltage: 1% Reactive, active, apparent power: 2%				
Switching outputs					
Relay outputs					
- Number of outputs	6/7 or 12/13 steps available				
- Switching voltage/current	Max. 250 V, 6 A				
Alarm relay	Potential-free contact (max. 250 V, 6 A)				
Message relay	Potential-free contact (max. 250 V, 6 A) Parameters programmable				

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Ordering Codes

Туре	Voltage 50/60 Hz	Output		Alarm output	Switchover 2 nd parameter set	Inter- face	Ordering code
		Relay	Transistor				
BR6000-R6	110 230	6	-	Yes	No	No	B44066R6006E230
BR6000-R12	110 230	12	-	Yes	No	No	B44066R6012E230
BR6000-R12/F	110 230	12	_	Yes	Yes	No	B44066R6212E230
BR6000- R12/S485*	110 230	12	_	Yes	Yes	RS485	B44066R6412E230

* including new Windows-Software V5.0

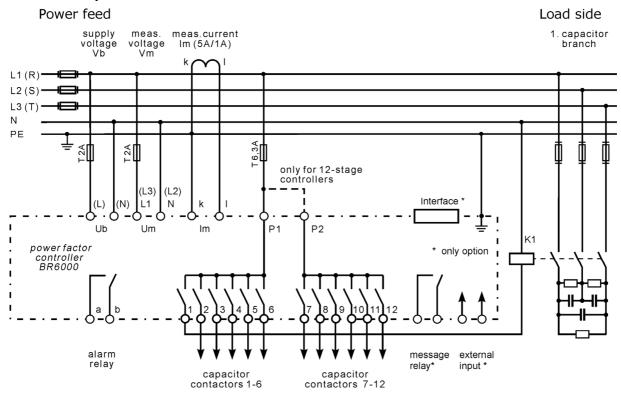


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B44066R6...E230

BR6000 V5.0

Connection plan



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$\underline{\wedge}$ Cautions and warnings

Controller hunting: When putting the capacitor bank into operation, it is required to avoid needless switching cycles (means permanent switching on and off of steps without significant change of consumer load). This so called "controller hunting" would increase the number of switching operations of the connected contactors and capacitors and decrease the expected life cycle (wear out) and, in worst case, capacitor bursting and fire, etc. This can be avoided by a proper programming of the BR6000 with the actual system parameters (current transformer prim. and sec., first kvar step, control series, switching time).

Accessory for PFC-Controller BR6000

USB to RS485 converter to connect the BR6000 or other devices with interface RS485 to a PC with USB-interface. Connection of several devices at RS485 possible.

Technical data see separate data sheet B44066R3333E230.

▲ Please read cautions information about PFC capacitors and cautions as well as installation and maintenance instructions in the actual version of the Product Profile *Power Factor Correction* to ensure optimum performance and prevent products from failing, and in worst case, bursting and fire, etc. The actual Product Profile is available at www.epcos.com/publications.

Information given in the PFC-product profile and values given in the data sheet reflect typical specifications. You are kindly requested to approve our product specifications or request our approval for your specification before ordering.



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