

- **Low cost**
- **Monitors LINE (phase) presence and order**
- **Monitors phase voltage magnitude**
- **Monitors NEUTRAL (zero) presence**
- **Overheating-protection input from PTC**
- **High reliability**

DESCRIPTION

BPFC770 is a specialized device for monitoring and protection of 3-phase asynchronous motors, designed for DIN-rail mounting. It monitors phase presence and order, phase line voltage, and zero presence, and switches off its relay output in the cases of failure. An additional input for connecting a thermistor with positive temperature coefficient (posistor) is used for monitoring motor temperature. A cheap, yet highly reliable device, BPFC770 can be used not only for motor protection, but also in all cases, in which 3-phase system power supply should be monitored.

TECHNICAL SPECIFICATIONS

Construction : DIN-rail
Wiring : Screw terminals on socket
Housing : Plastic

INPUT

LINE control input (3-phase): 3 x 380 VAC $\pm 15\%$
NEUTRAL control input : 220 VAC $\pm 15\%$
Temperature input : PTC (R_{PTC} at 25 °C = 1k, 2k, or other)

OUTPUT

Relay electromechanical : 3A/250V w/ NO/NC contact
Solid state relay : 1A/250VAC

Output function switches off in situations (1):

- missing line (R/S/T) or neutral (N),
- line voltage exceeds 270 ± 10 V,
- line voltage drops below 170 ± 10 V,
- line order is not RST, STR, or TRS

Temperature control : switches off when PTC indicates 70 °C

Indication : LED for relay ON

(1) Other phase voltages than the described in points (b) and (c) may be monitored if requested.

**INSTALLATION**

Supply : 230 VAC $+10/-15\%$
Ambient temp : -10 to $+65^{\circ}\text{C}$, RH 0 to 85%
Storage temp : -20 to $+80^{\circ}\text{C}$
Mounting : DIN rail
Protection : IP40/IP00
Size : W45 x H78 x D108mm
Weight : 300g

**ORDER INFORMATION**

BPFC770
RELAY OUTPUT
 C Relay NO/NC
 D SSR

TEMPERATURE INPUT
 BP PTC 1k
 BQ PTC 2k
 BZ Specify (Other PTC)