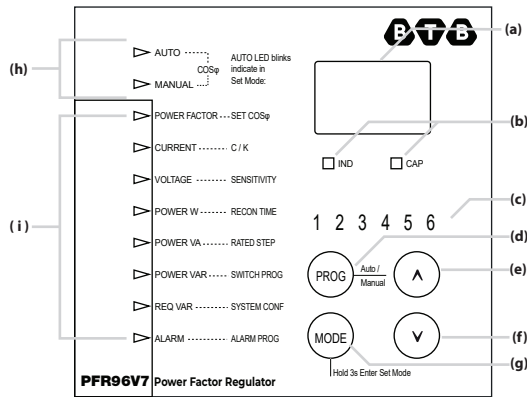


PFR96 Power Factor Regulator User Guide



- (a) 3-digit data indication
- (b) Capacitive [CAP] and inductive [IND]
- (c) Step indicator
- (d) PROGRAM key
- (e) MODE/SCROLL key
- (f) DOWN key
- (g) UP key
- (h) AUTO and MANUAL indicators
- (i) Mode indicator

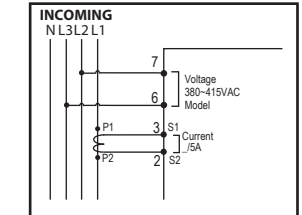
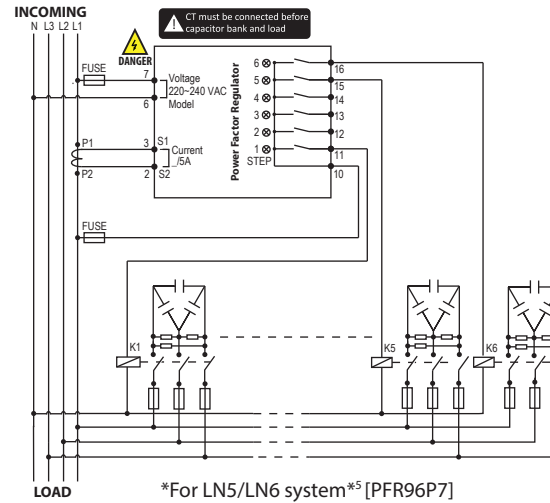
Features

- Microprocessor based intelligent auto switching control.
- Display of $\cos \phi$, power factor, voltage, current
- Display power of Active (W), Reactive (var), Apparent (VA) and required var
- No voltage release function
- Automatic C/K and rated step adjustment
- Automatic CT polarity correction
- Programmable sensitivity
- Programmable alarm
- Last step can be used as alarm/fan output
- Alarm of Under/over voltage, under/over compensate and step fault
- Complies with IEC 61000-6-2 standard

Switching Program

OFF	Switching operation is Off, only measurement is operating.
Manual switching (n-A)	Capacitor steps are controlled manually by the "UP" or "DOWN" keys. Steps are switched in a rotational manner based on first-in-first-out basis
Rotational switching (rot)	It is automatically switch in and out the capacitors according to the targeted power factor, sensitivity and reconnection time. Steps are switched in a rotational manner based on first-in-first-out basis
Automatic switching (Aut)	This automatic switching program uses intelligent switching sequence. The step switching sequence is not fixed and the program automatically select the most appropriate steps to switch in or out in order to achieve shortest reaction time with minimum number of steps. For equal ageing of the capacitor and contractors, the program will select the least used step to be switched in if there are two equally rated steps. Under this switching program, the power factor regulator automatically detects the CT polarity.
Four-quadrant switching (Fqr)	This switching program is similar to the automatic switching program (AUT) except that this switching program allows the power factor regulator to operate correctly under both import power and export power (re-generative) conditions. [Make sure CT polarity is correctly wired when using this program]

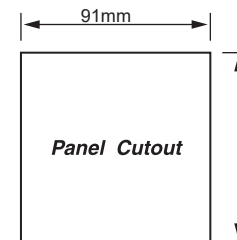
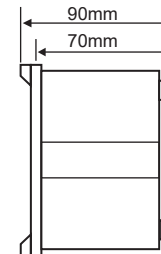
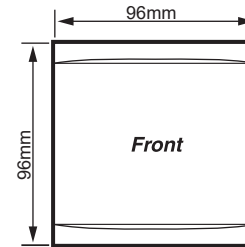
Connection Diagram



*For LL5/LL6 system*⁵ [PFR96V7]

*For LN5/LN6 system*⁵ [PFR96P7]

Case Dimensions



Technical Data

Auxiliary Supply

Supply Voltage [PFR96P7] 200~240 VAC
 [PFR96V7] 380~415 VAC
 Operating Limits -15% +10%
 VA Rating 10VA max
 Frequency 50Hz or 60Hz

Current Input

Rated current, In 5A
 Operations Limits 0.02 - 8A
 Rated Frequency 50Hz or 60Hz

Output Contacts

Numbers of Outputs 6
 Contact Arrangement NO contact type
 Rated Capacity 5A 250VAC (Cos ϕ =1)
 Max Current for the Common 12A continuous
 Terminals

Control Range

Power Factor Setting 0.8 inductive - 0.8 capacitive
 C/K Setting 0.02 - 1.20/ Auto
 Switching Sensitivity 5 - 600 s/step
 Reconnection Time for 5 - 240 s
 Same Step
 Switching Program Off/Automatic/Rotational/
 Manual/Four-quadrant
 Rated Step Coefficient 1 - 16/Fix/Off

Mechanical

Mounting Panel mounting
 Dimension (mm) 96(w) x 96(h) x 70(d)
 Enclosure Protection IP54 at the panel
 Approximate Weight 0.6kg

