



# PFR140 120 80 60

## Features

- Microprocessor based intelligent auto switching control
- Automatic C/K and rated step adjustment
- Automatic CT polarity correction
- Display of power factor, current & total harmonic distortion of current
- Programmable sensitivity
- Last step can be used as alarm/fan output
- Under/over voltage alarm, under/over compensate alarm & high harmonic distortion alarm
- User-friendly setting
- Complies with IEC 61000-6-2 standard

## Technical Data

### RATINGS AUXILIARY POWER SUPPLY

Current Supply voltage : 220~240 V AC /  
380~415 V AC  
Operating Limits : -15% + 10%  
Consumption : 10 VA max  
Rated frequency : 50 Hz or 60 Hz

### OUTPUT CONTACTS

Numbers of outputs : 6 / 8 / 12 / 14  
(PFR60/PFR80  
/PFR120/PFR140 )  
Rated voltage : 250 V AC  
Contact rating : 5 A  
Expected electrical life : 100,000 operations  
at rated current  
Expected mechanical life : 5 x 10<sup>6</sup> operations  
Max current for the  
common terminals : 12 A continuous

### CURRENT INPUT

Rated current ( I<sub>n</sub> ) : 5 A  
Operating Limits : 0.05 A to 6.5 A  
Rated Frequency : 50 Hz or 60 Hz

### CONTROL RANGE

Power factor setting : 0.8 Ind - 0.8 Cap  
C/K setting : 0.03 - 1.20 / Automatic  
Switching sensitivity : 5 - 600 s/step  
Reconnection time for  
same step : 5 - 240 s  
THD threshold : 0.20 - 3.00 ( 20% -  
300% ) / OFF  
Switching Program : Automatic / Automatic  
Rotate / 4-quadrant /  
Manual  
Rated step coefficient : 0 / 1 / 2 / 3 / 4 / 5 / 6 /  
8 / 12 / 16  
( Automatic if C/K set  
to Auto )

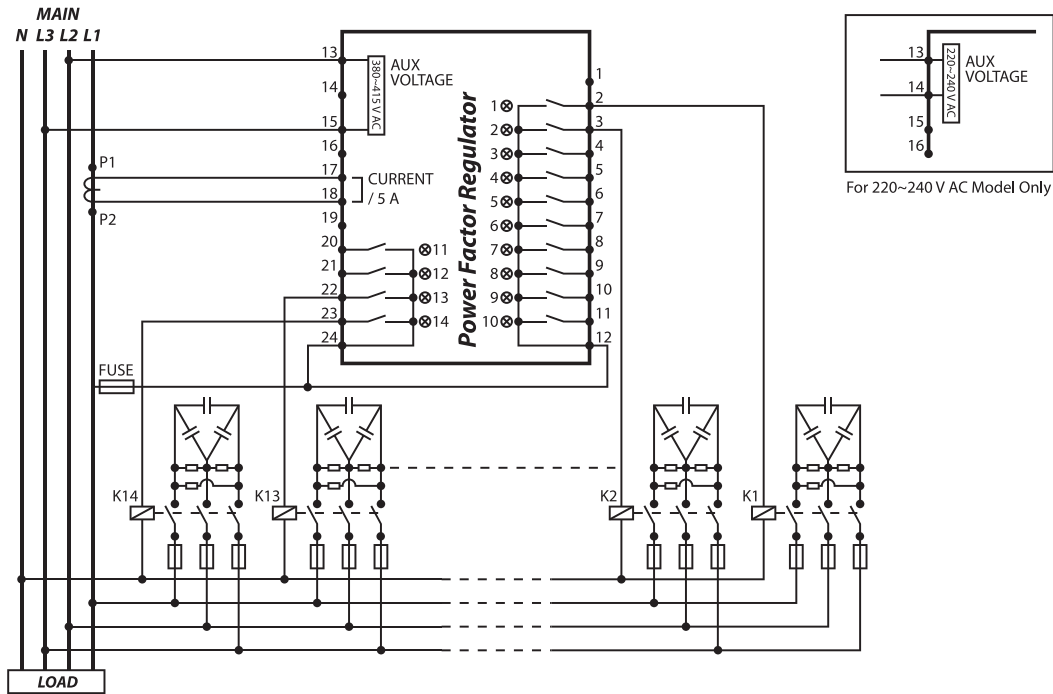
### ENVIRONMENTAL CONDITIONS

Temperature : -10°C to 55°C  
Humidity : 5% to 95%,  
non-condensing

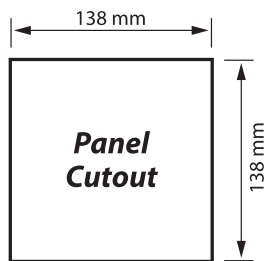
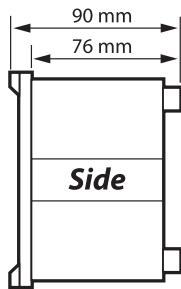
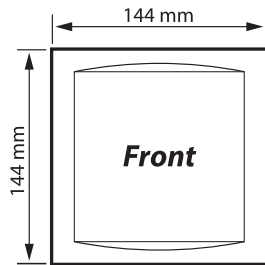
### MECHANICAL

Mounting : Panel mounting  
Dimension (mm) : 144(w) x 144(h) x 90(d)  
Enclosure protection : IP54 at the panel  
Approximate weight : 1.2 kg

### Typical Application Diagram



### Case Dimensions



### Ordering Information

MODEL	DESCRIPTION
PFR60 - 415 - 50	6 Steps, 50 Hz system, auxiliary voltage 380~415 V AC
PFR80 - 415 - 50	8 Steps, 50 Hz system, auxiliary voltage 380~415 V AC
PFR120 - 415 - 50	12 Steps, 50 Hz system, auxiliary voltage 380~415 V AC
PFR140 - 415 - 50	14 Steps, 50 Hz system, auxiliary voltage 380~415 V AC
PFR60 - 220 - 50	6 Steps, 50 Hz system, auxiliary voltage 220~240 V AC
PFR80 - 220 - 50	8 Steps, 50 Hz system, auxiliary voltage 220~240 V AC
PFR120 - 220 - 50	12 Steps, 50 Hz system, auxiliary voltage 220~240 V AC
PFR140 - 220 - 50	14 Steps, 50 Hz system, auxiliary voltage 220~240 V AC
PFR60 - 415 - 60	6 Steps, 60 Hz system, auxiliary voltage 380~415 V AC
PFR80 - 415 - 60	8 Steps, 60 Hz system, auxiliary voltage 380~415 V AC
PFR120 - 415 - 60	12 Steps, 60 Hz system, auxiliary voltage 380~415 V AC
PFR140 - 415 - 60	14 Steps, 60 Hz system, auxiliary voltage 380~415 V AC
PFR60 - 220 - 60	6 Steps, 60 Hz system, auxiliary voltage 220~240 V AC
PFR80 - 220 - 60	8 Steps, 60 Hz system, auxiliary voltage 220~240 V AC
PFR120 - 220 - 60	12 Steps, 60 Hz system, auxiliary voltage 220~240 V AC
PFR140 - 220 - 60	14 Steps, 60 Hz system, auxiliary voltage 220~240 V AC