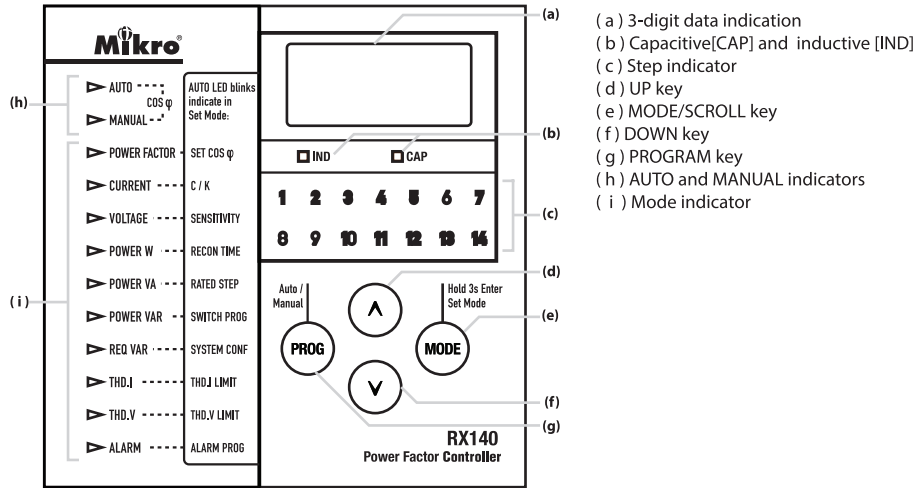


RX60/ RX80/RX120/RX140 Power Factor Controller User Guide



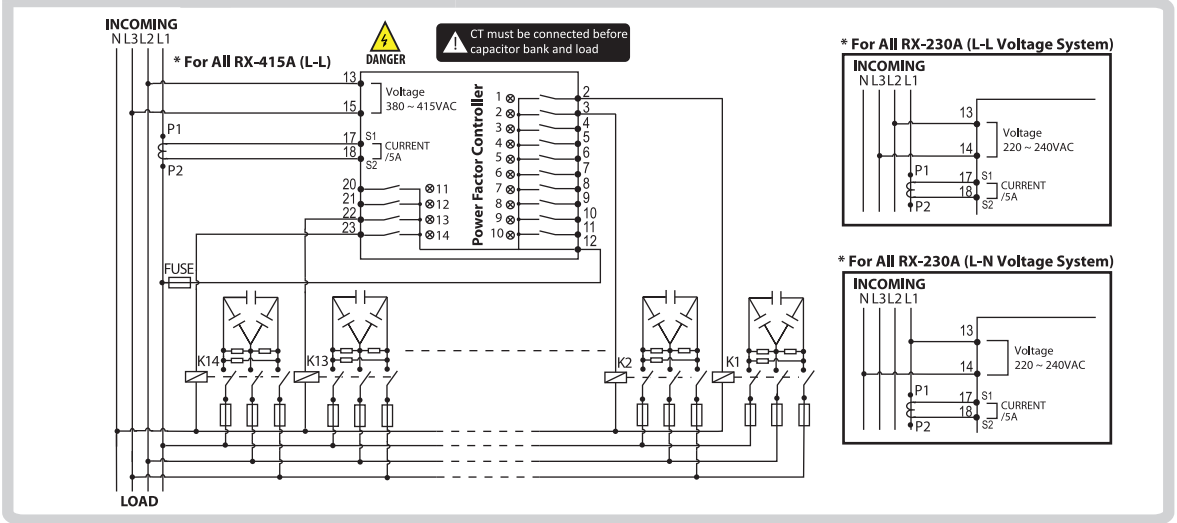
Features

- Microprocessor based intelligent auto switching control
- Display of Cos Φ , power factor, voltage, current and total harmonic distortion 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, step fault and high harmonic distortion
- Complies with IEC 61000-6-2 standard

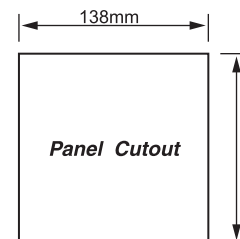
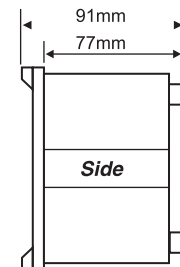
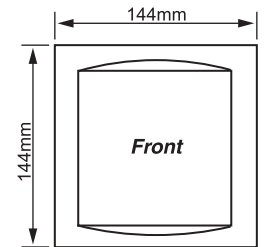
Switching Program

| | |
|-------------------------------|---|
| 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 controller 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 controller 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



Case Dimensions



Technical Data

Auxiliary Supply

Supply Voltage..... 220~240 VAC/380~415VAC
 Operating Limits..... -15% +10%
 VA Rating..... 10VA max
 Frequency..... 50Hz or 60Hz

Current Input

Rated current, In..... 5A
 Operatings Limits..... 0.05 - 8A
 Rated Frequency..... 50Hz or 60Hz

Output Contacts

Numbers of Outputs..... 6/8/12/14 (RX60/RX80/
 RX120/RX140)
 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
 THD Current Threshold..... 20 - 300%
 THD Voltage Threshold..... 20 - 30%
 Switching Program..... Off/Automatic/Rotate/
 Manual/Four-quadrant
 Rated Step Coefficient..... 1 - 16/Fix/Off

Mechanical

Mounting..... Panel mounting
 Dimension (mm) 144(w) x 144(h) x 91(d)
 Enclosure Protection..... IP54 at the panel
 Approximate Weight..... 1kg

