

SAMWHA

CAPACITOR

High Performance Capacitors Since 1956

Inside All The E-devices



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Samwha (Thailand) Co.,Ltd was founded in 1997 as Samwha's manufacturing base in Southeast Asia. It is a part of the global network strategy of Samwha Group. It began by producing ferrite cores, high voltage capacitor and low voltage power capacitor. Furthermore, Samwha (Thailand) Co.,Ltd. is playing a major role in its development in Thailand, publicizing the image of Samwha Group, to ultimately become a leading company.



COMPANY HISTORY

SAMWHA THAILAND

- 1997.11 Establish Samwha (Thailand) Co.,Ltd.
- 2002.03 Factory Extend Construction Motor Running Capacitor
- 2003.05 Began mass Production of Motor Running Capacitor
- 2004.06 ISO 9001: 2000 Certification
- 2006.09 Began mass Production of Low Voltage Power Capacitor
- 2009.05 ISO 14001: 2004 Certification
- 2010.08 ISO 14001: 2004 Certification
- 2010.10 TISI Certificate of Low Voltage Power Capacitor.

AFFILIATED COMPANY

- | | |
|--------------------|-----------------------------|
| Samwha Thailand | PT. SAMCON |
| Samwha Electronics | Qingdao Samwha Electronics |
| Korea JCC | Samwha Enterprise |
| Samwha Europe GmbH | Samwha Hongkong |
| Samwha India | Tianjin Samwha Electric |
| Samwha U.S.A. | Samwha Poland |
| Samwha Electric | Samwha Tecom |
| Samwha Trading | Tianjin Samwha Hi-Tech Intl |
| PT. SI | |



POWER FACTOR CONTROLLER



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 ⁶ operations
Max current for the common terminals	: 12 A continuous

CURRENT INPUT

Rated current (In)	: 5 A
Operating Limits	: 0.05 A to 6.5 A
Rated Frequency	: 50 Hz or 60 Hz

ENVIRONMENTAL CONDITIONS

Temperature	: -5 °C to +55 °C
Humidity	: 56 days at 93% RH and 40 °C non-condensing

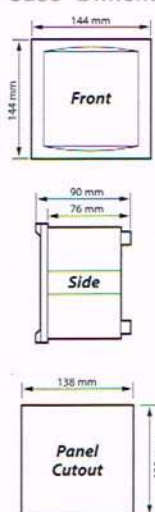
CONTROL RANGE

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)

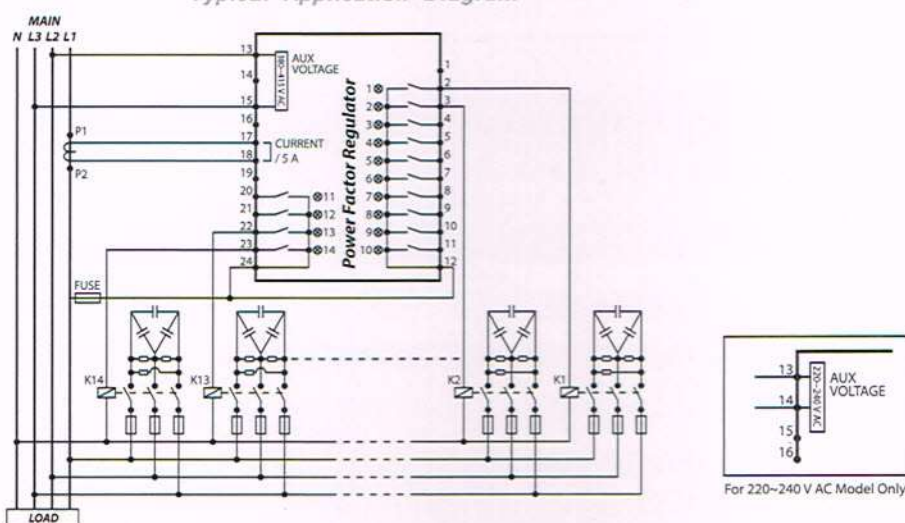
MECHANICAL

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

Case Dimensions



Typical Application Diagram



ORDERING INFORMATION

MODEL

PFR60-415-50
PFR80-415-50
PFR120-415-50
PFR140-415-50

DESCRIPTION

6 Steps, 50Hz system auxiliary voltage 380-415 VAC
8 Steps, 50Hz system auxiliary voltage 380-415 VAC
12 Steps, 50Hz system auxiliary voltage 380-415 VAC
14 Steps, 50Hz system auxiliary voltage 380-415 VAC



SAMWHA CAPACITOR

Low Voltage Power Capacitor

DRY TYPE (CYLINDER)

DRY TYPE (UNIT)

DRY TYPE (OUTDOOR)

OIL TYPE (INDOOR)

OIL TYPE (STEEL CASE)

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