



## Low Voltage Automatic Power Factor Correction Panels

EPCOS offers wide range of automatic switched capacitor panels for Power Factor correction in various configurations for a wide range of applications. The Panels are both Contactor switched and Thyristor switched type.

### Technical Specifications for APFC Panels

Rated voltage	380 / 400 / 415 / 440 / 690 V*.
Rated frequency	50 / 60 Hz.
Rated output	8 - 1000 KVAR* (other ratings from 1000 - 2000 KVAR are available on request).
Configuration	Delta / Star floating / Star grounded.
Number of steps	1 – 16.
Step distribution	Equal / Binary / unequal.
Detuning reactor	0.2%, 1%, 5.67%, 6%, 7%, 14%.
Reactor winding	Copper / Aluminum strip / Aluminum foil.
Switching device	Thyristor switched modules / Capacitor duty contactor.
Panel type	Standard / Modular – Partly compartmentalized / Compartmentalized.
Branch protection	HRC fuse / High speed fuse for Semiconductor device (TSM) protection / SFU / MCCB.
Capacitors	Resin filled / Gas impregnated / APP – Oil impregnated.
Protections	OV / UV / SC / EF / OT.
Controller	i) BR 4000 / BR 6000 series for single CT sensing application (balanced load). ii) BR 5000 / BR 7000 series for three CT sensing application with RS485 communication as a Standard feature (unbalanced load).
Measuring CT	1 for BR 4000 and BR 6000 series. 3 for BR 5000 and BR 7000 series.
Data logging	Through controller internal memory in BR 5000 series.
Ingress protection	IP2X ... IP5X.
Power analyzer	Optional.
Other unique optional features	i) Facility of Master / Slave. ii) Facility of Fan failure monitoring. iii) Facility to operate the Panel on Utility supply and Generator supply with different 'target PF' settings. iv) Facility to send hourly Data by GSM to a designated Base station. v) Facility to program key data on the PF Controller through GSM. vi) Facility to receive SMS for designated fault situations. vii) Facility of incorporating a Smoke Detector in the Panel and tripping the main Supply in the event of Smoke detection. viii) Facility of operating Panels on either side of a bus-coupler independently or with the bus coupled. ix) APFC Panels for Outdoor application available. x) APFC Panels for highly corrosive environments available. xi) APFC Panels for Outdoor application used for Distribution Transformer compensation in Utilities with many unique features such as 100 days of Data logging, Neutral fault detection and other multiple fault detection and protection. xii) Remote monitoring through Cloud / LAN / GSM

\* Other Ratings available on request.

\* Type tested by ASTA - Intertek, CPRI etc.

# Low Voltage Automatic Power Factor Correction Panels (Upto 100 KVAR)



The increasing demand of electrical power and the awareness of the necessity of energy saving is very upto date these days. Also the awareness of power quality is increasing, and power factor correction (PFC) will be implemented on a growing scale. Also, enhancing power quality and improvement of power factor reduces costs and ensures faster return on investment.

Now a days, the need is being raised to conserve energy in every household, residential complexes and small and medium sized malls.

In view to address these segments EPCOS offers wide range of automatic switched capacitor panels for power factor correction in various configurations for a wide range of applications.

### Applications:

- P. F. improvement in Small Workshops, Residential Areas, Shopping Malls, Hospitals/Clinics, Retail outlets, Departmental Stores, Godowns, Warehouses, Logistic hubs and Office buildings
- Small Distribution transformers (< = 250kVA)
- Irrigation and small sized water pumping stations

### Special features:

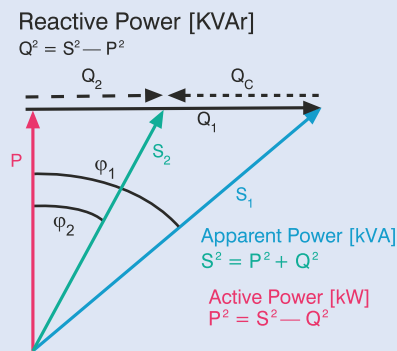
- Compact and thermally validated
- Ease of Operation
- Functionally tested at factory
- Noiseless Trouble-free Operations
- Wall mounted
- As per latest standard
- Base frame (Optional ) for self standing version

### Customer Benefits:

- Maintenance Free
- Reduction in Electricity Bill
- Efficient Energy Utilisation
- Improved performance of other machines
- Increased life of electrical system.

### Specifications:

- 7.5 kVAR to 100 KVAR (3Ph. 50Hz 440V)
- Capacitor duty contactor switched
- 1 CT sensing .
- MPP Self Healing Capacitors
- Controller with display of Power Parameters
- Step operation, healthiness indication
- Mounting Stand available as option.



### Wall Mounted Contactor Switched APFC Panels Rating from 7.5 KVAR to 100 KVAR

Panel Rating (KVAR) @440V	Step size (KVAR)	No. of Steps	Main Incommer Protecton	Branch Protection	Ordering Code
7.5	1+2.5+4	3	MCCB	MCB	B25170N0007A033
10	2.5+2.5+5	3	MCCB	MCB	B25170N0010A033
15	2.5+2.5+5+5	4	MCCB	MCB	B25170N0015A043
20	2.5+2.5+5+10	4	MCCB	MCB	B25170N0020A043
25	2.5+2.5+5+5+10	5	MCCB	MCB	B25170N0025A053
35	5+5+5+10+10	5	MCCB	MCB	B25170N0035A053
50	5+5+10+10+20	5	MCCB	MCB	B25170N0050A053
60	5+5+10+15+25	5	MCCB	MCB	B25170N0060A053
75	5+10+10+25+25	5	MCCB	MCB	B25170N0075A053
100	5+10+10+25+25+25	6	MCCB	MCB	B25170N0100A063

- APFC Panels with Heavy Duty Capacitors can be provided on request.  
 - Note: Actual panel may differ from the picture in this catalogue.