

## FAST RESPONSE THYRISTOR SWITCHED AUTOMATIC HARMONIC FILTERS – RTPFC SERIES



Traditional Reactive Power Compensation equipment with electro-mechanical contactors, has a well proven performance in installations where the load has, slow variations and it is not very sensitive to voltage fluctuations. Today, however, more and more industrial installations includes electronic equipment's very sensitive to voltage variations (PLC, computer, etc) and also very fast changing working cycles. Reactive power compensation with Fast Switching Thyristor offers the best answer to these new industry requirements.



AB Power Fast Response Thyristor Switched Automatic Harmonic Filter Banks – RTPFC Series use thyristors instead of traditional contactors. The thyristors switch - on capacitors on zero crossing voltage, and switch them off on zero current situation. This firing strategy grants a totally transient free switching of power capacitors, avoiding any problem with transient over-voltage.

### Advantages

- 4 Quadrant Operation – Suitable for Import & Export Power
- Suit to all requirement for every industry
- Long Life Expectancy & High Reliability
- Transient Free Switching of Capacitor Banks
- Fast Switching Response ts -20 milliseconds

### Applications

Automatic welding machine, Robots, Rolling Mills, Wind mills, Grid Synchronized Captive Power Plant and Lift application

### Technical Data

Power Supply Voltage	230 - 690 V
Frequency	50Hz / 60 Hz
Function	Power Factor improvement and harmonic control and to avoid Leading Power Factor

### The Ideal Customer

- All industries having harmonic generation
- Company with Fast variable loads
- Industries having KVAH Billing

### ABPS SOLUTION PRIVATE LIMITED

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Branches / Service Centres : | Chennai | Coimbatore | Delhi | Kolkata | Ludhiana | Pune | Raipur | Bahrain | Saudi Arabia | Bangladesh

## Rating and Specification

Rated Voltage	230 V to 690 V
Frequency	50 Hz - 60 Hz
Switching Power	5 KVAR - 150 KVAR
Overload	1.3 x rated current
Auxiliary voltage	230 V
Switching delay	20 millisecond
Over Blocking Voltage	1600 V to 3600 V
Operating mode	Zero Crossing
Protection	Over-temperature / Over-voltage / Over-Current / Under current / Over current Surges / Over Voltage Surges and Short Circuit Protection
IP Protection	IP 20
Snubber circuits	Fitted
Cooling	Forced Air
Switch ON Indication	LED
Dimensions	On request
Temperature inside the cabinet	Max 45° C

*Other Voltage & KVAR ratings are available on Request.*

