

Thyristor Switch Modules

For real time ,dynamic type PFC system –RTPFC panels



Influx power offers thyristor switch modules specially designed for fast switching capacitor bank panel (RTPFC) i.e. real time power factor correction system.

In the RTPFC panel, connection and disconnection of capacitors occurs in just a few milli-seconds through the thyristor switch which leads to power factor correction in real time.

The thyristor switch modules (IPTM) are very easy to install and come with built-in indications for normal operation and faults and built in protections.



Features

- ✓ Due to solid state operation, no arcing, no sparking and no switching noise produced
- ✓ Transients free switching of capacitor because of zero cross over switching technique.
- ✓ Response time is very fast, switching of capacitor with few milli second rate.
- ✓ No limitation on switching operation, long life service
- ✓ There is no wear and tear over a period , maintenance free
- ✓ Copper busbar for easy of connection.

Technical Specification

Electrical rating

Operating voltage Range:	400V-600V , 3 Phase
Rating Available	10kvar, 15kvar, 20kvar, 25kvar, 50kvar, 75kvar, 100kvar
Frequency :	50/60 Hz
PIV :	1600 / 2200V
Triggering :	12/ 24V DC
Overload Capacity :	1.5 In for 1 min

Protections

Fuses	Not included. External protection against overload and short-circuit are required
Fan	1 x Included with Thermostat 50°C Control
du / dt	RC Snubber protection
Over temperature	Thermostat 90°C
di / dt	Not included. External detuned reactors in series with the Capacitors are required

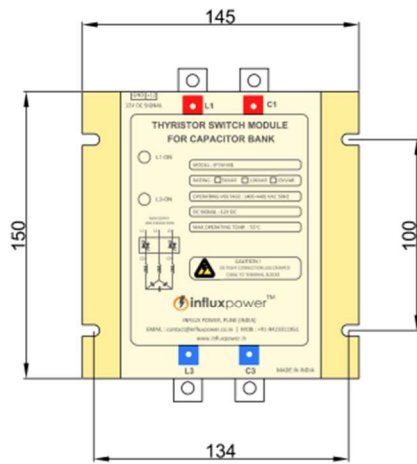
Environmental features

Maximum ambient temperature	45°C
Maximum temp. of the dissipator	90°C

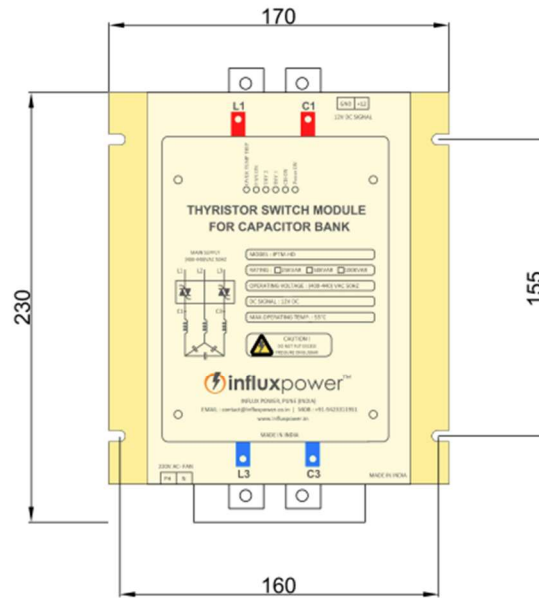
Construction features

Protection Degree	IP 00
Display	Power ON, Capacitor bank firing, Fan ON, Over temperature trip

Dimensions



10kvar/15kvar TSM



20kvar to 100kvar TSM

Model	Dimensions :L x H x W (mm)	Weight(kg)
10kvar/ 15kvar	145*150*115	1.5 kg
20kvar/ 25kvar /50kvar	170*210*185	3.5 kg
75kvar/ 100kvar	170*230*250	6.0 kg

Connection Diagram

