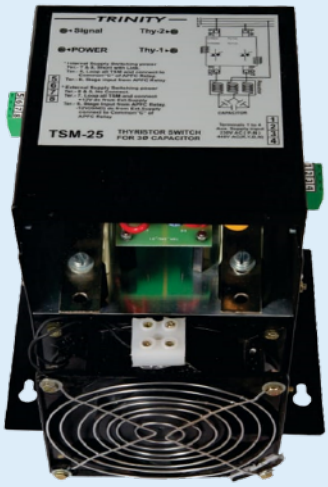
THYRISTOR SWITCHING MODULES
for Capacitor Banks

Thyristor Switching Modules are free of Mechanical Wear and Tear, operate without noise, and provide practically transient free switching eliminating inrush currents which are associated with Electromechanical Contactor Switching. An unlimited number of switching operations are possible, without applying significant stress to the capacitors.

Capacitor life is enhanced by more than three times normal life due to smooth connection and disconnection.

FEATURES

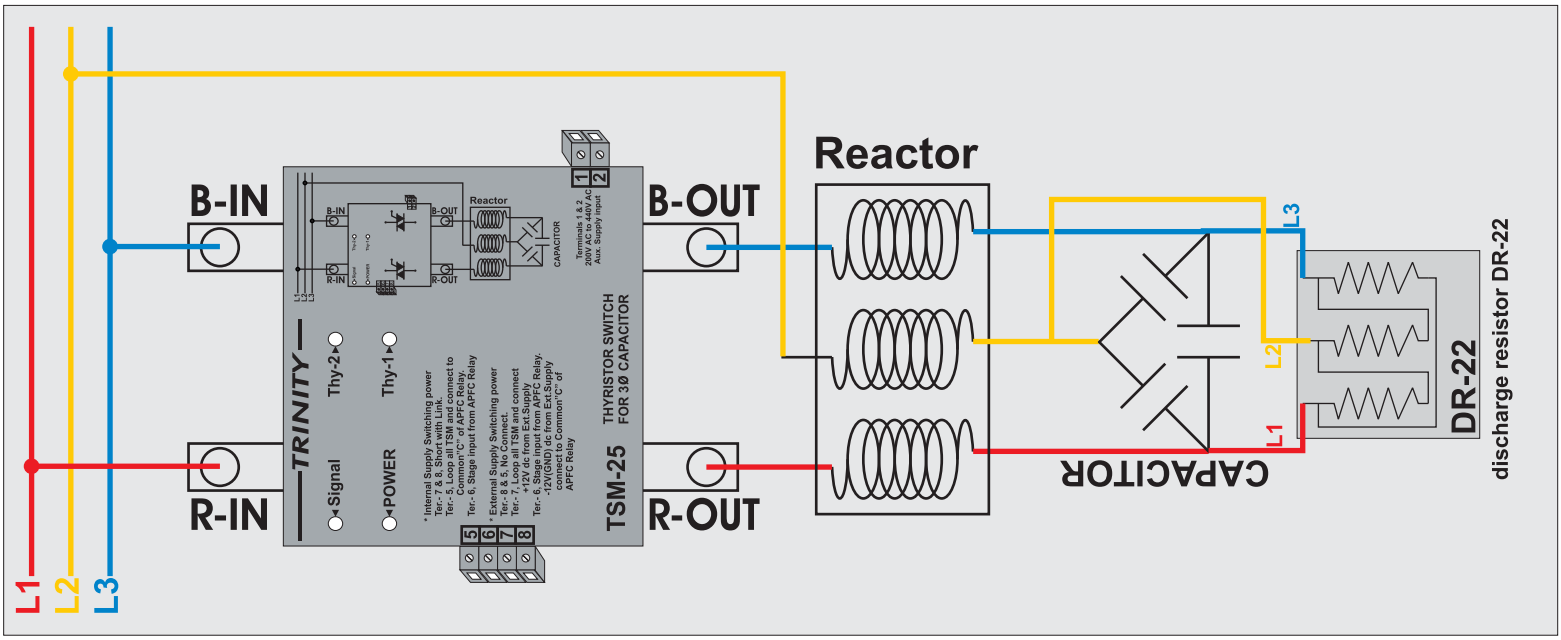
- Four LED indications : Thy Switch 1 and 2 ON (Current Flow condition), Power ON, Ext. Signal ON.
- Cooling Fan : ON automatically, when switch temperature rises above 60 degree.
- Over Temp. Trip: When temperature exceeds 90 degree due to cooling fan failure.



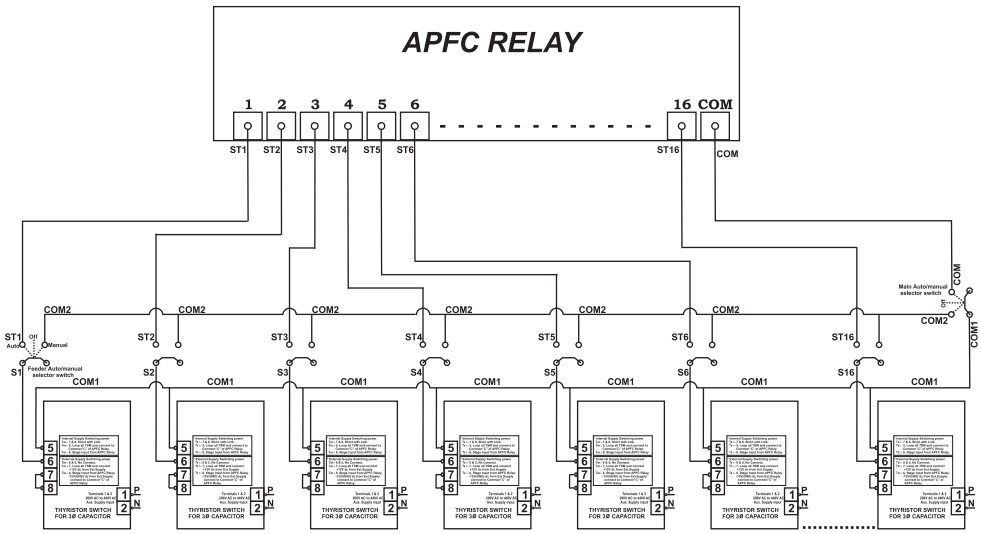
TECHNICAL DETAILS

- System Operating Voltage: 380 V to 600 V available.
- Stage KVAR: 5, 10, 12.5, 15, 20, 25, 30, 40, 50, 60 and 100 KVAR.
- Control Supply: 240 V, 415 V +/- 10%, 50 Hz, < 10 VA.
- External Trigger Signal: 3 options available: 10 to 24 V DC, 240 VAC, 415 V AC, Potential
- Free Contact (at a time only one ext. signal is applicable).

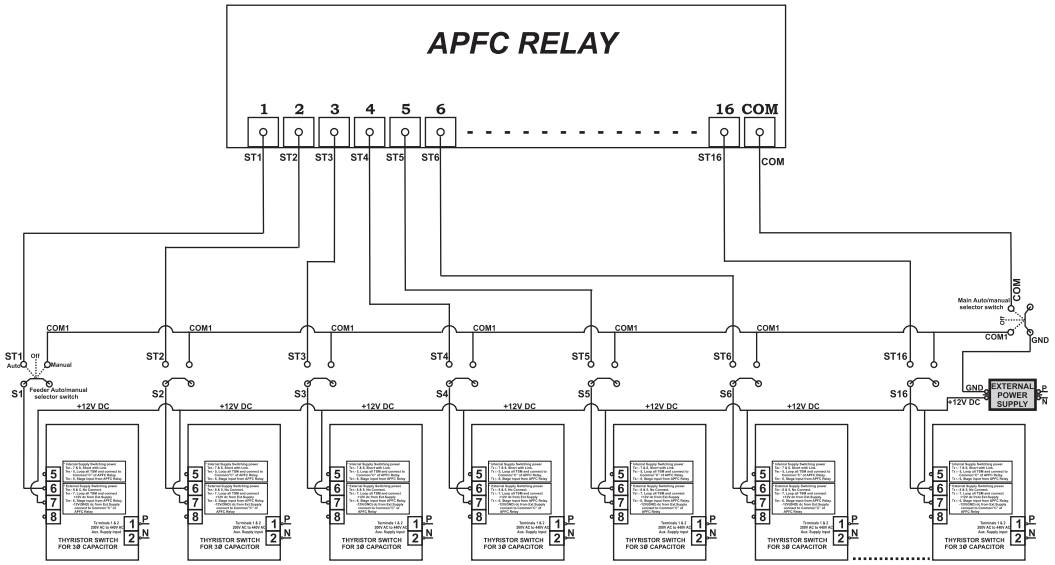
CONNECTION DIAGRAM OF TSM



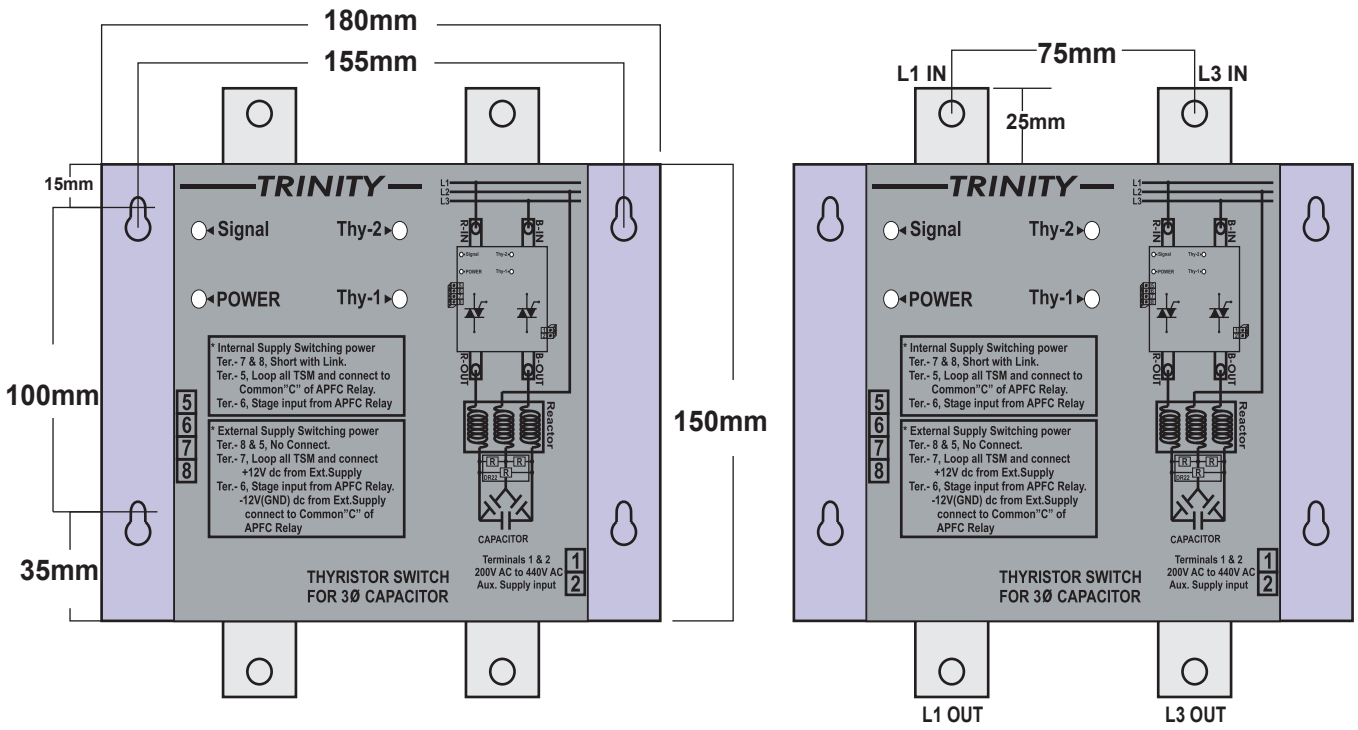
TRINITY THYRISTOR SWITCH MODULE INTERNAL SWITCHING CONTROL WIRING DIAGRAM



TRINITY THYRISTOR SWITCH MODULE EXTERNAL SWITCHING CONTROL WIRING DIAGRAM

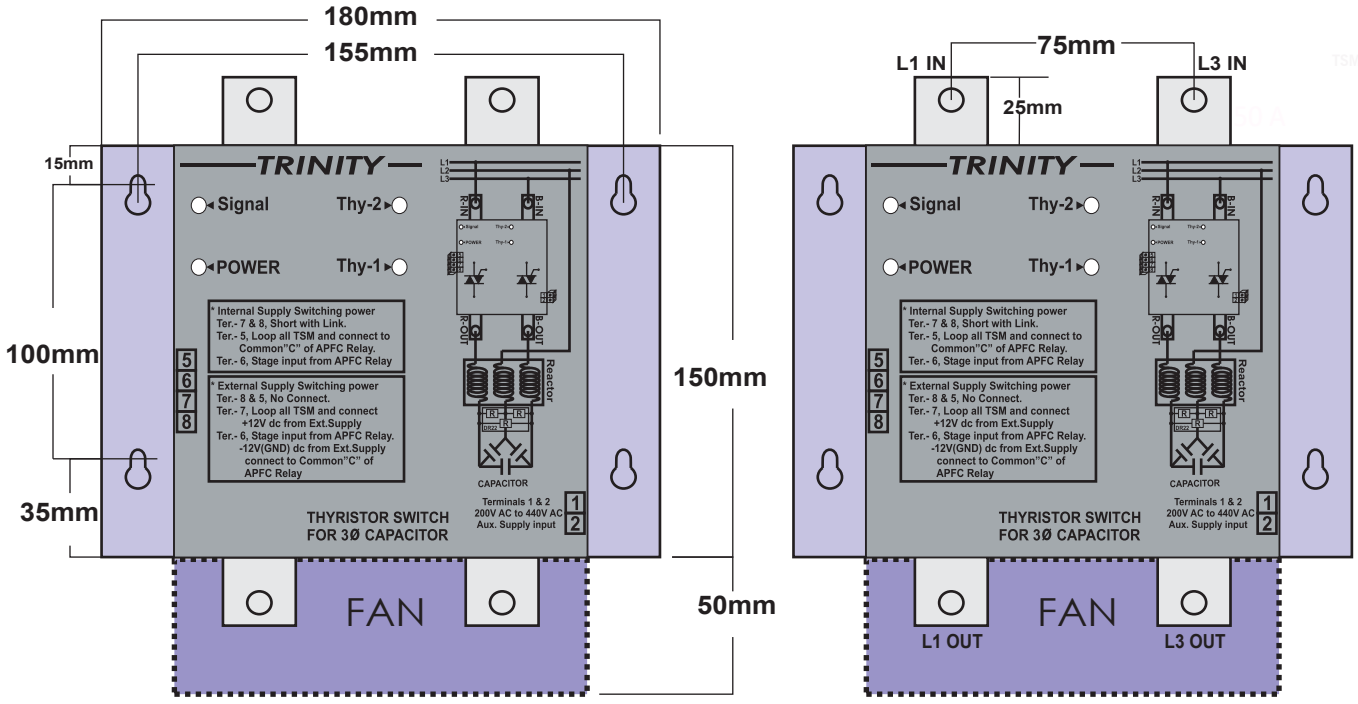


Mounting Dimension 5 KVAR to 20 KVAR TSM



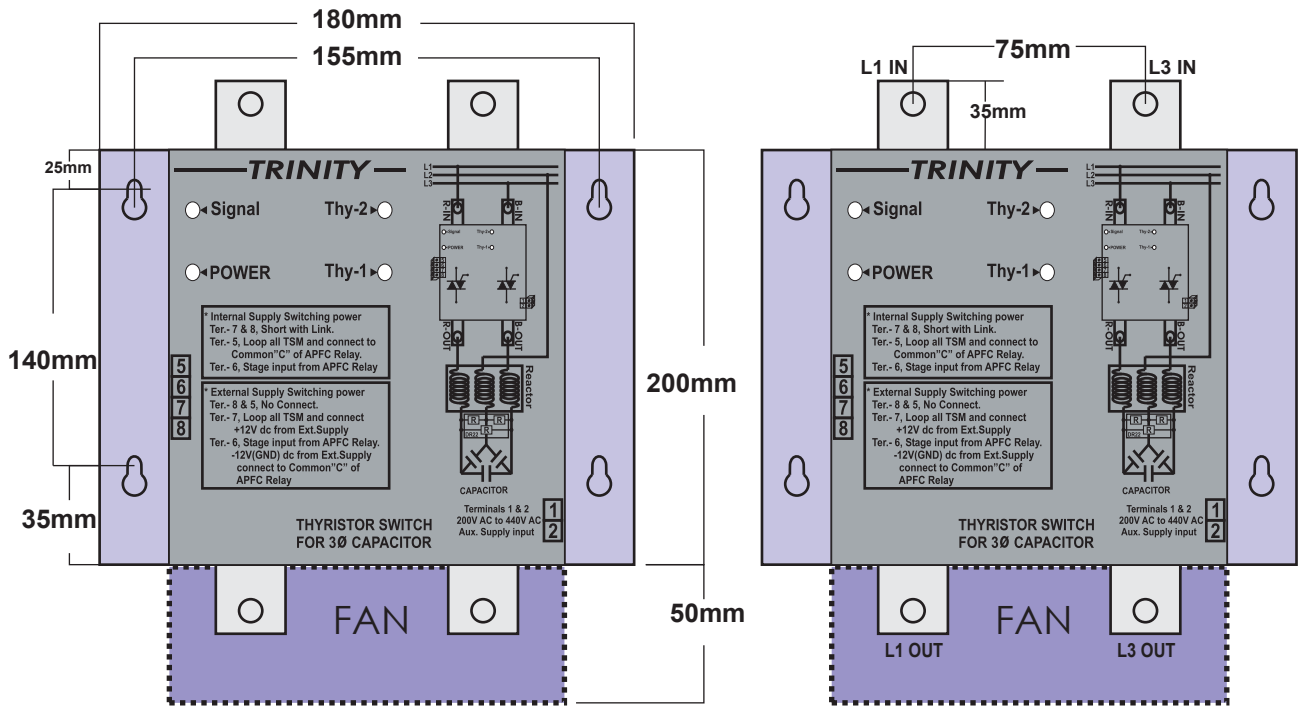
Height of Thyristor Switch is 240mm

Mounting Dimension 25 KVAR to 50 KVAR TSM



Height of Thyristor Switch is 240mm

Mounting Dimension 75 KVAR to 100 KVAR TSM



Height of Thyristor Switch is 245mm

Device Current Ratings:- 5 KVAR to 100 KVAR Capacitor Bank.

KVAR	Average on State Current: $I_{T(AV)}$	Average RMS on State Current: $I_{T(RMS)}$	Non Repetitive Peak on State Current: I_{TSM}
5	25 A	40 A	550 A
10	40 A	63 A	1000 A
15	50 A	79 A	1500 A
20	50 A	79 A	1500 A
25	50 A	79 A	1500 A
50	106 A	166 A	2250 A
75	156 A	245 A	5400 A
100	175 A	275 A	5400 A

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* Specifications are subject to change without notice due to continuous improvement.