

Clariant Power System Ltd.

THYRISTOR SWITCHING MODULE (TSM)

.... For Capacitor Switching

Salient Features and Benefits:

- Inrush current protected.
- Number of switching without delay.
- No noise emission during switching operations.
- Automatic thermal cut off.
- Compact Module, easy for connections.
- User friendly operation.
- No transients due to zero switching technology.
- Zero voltage switching 'ON' and Zero Current switching 'OFF'
- Long operation life.



Applications:

Real Time (Dynamic) Power Factor Correction for

- Press loads
- Welding machines
- Cranes and Elevators
- Rolling Mills
- Wind turbines etc.

Technical Details

- System Operating Voltage: 380V to 660V AC available.
- Frequency : 50Hz/60Hz
- Stage KVAR: Available from 5KVAR and 200KVAR.
- Control Supply: 12V or 24V DC.
- LED Indication: Thyristor ON (R ph ON, B ph ON), +12V LED, +5V LED, Temp OK LED.
- Mounting Position: Vertical, minimum 100mm distance upwards and downwards.
- Assembling : Direct mounting on mounting plate.
- Cooling : Forced cooling
- Protection : Over temperature, dv/dt protection

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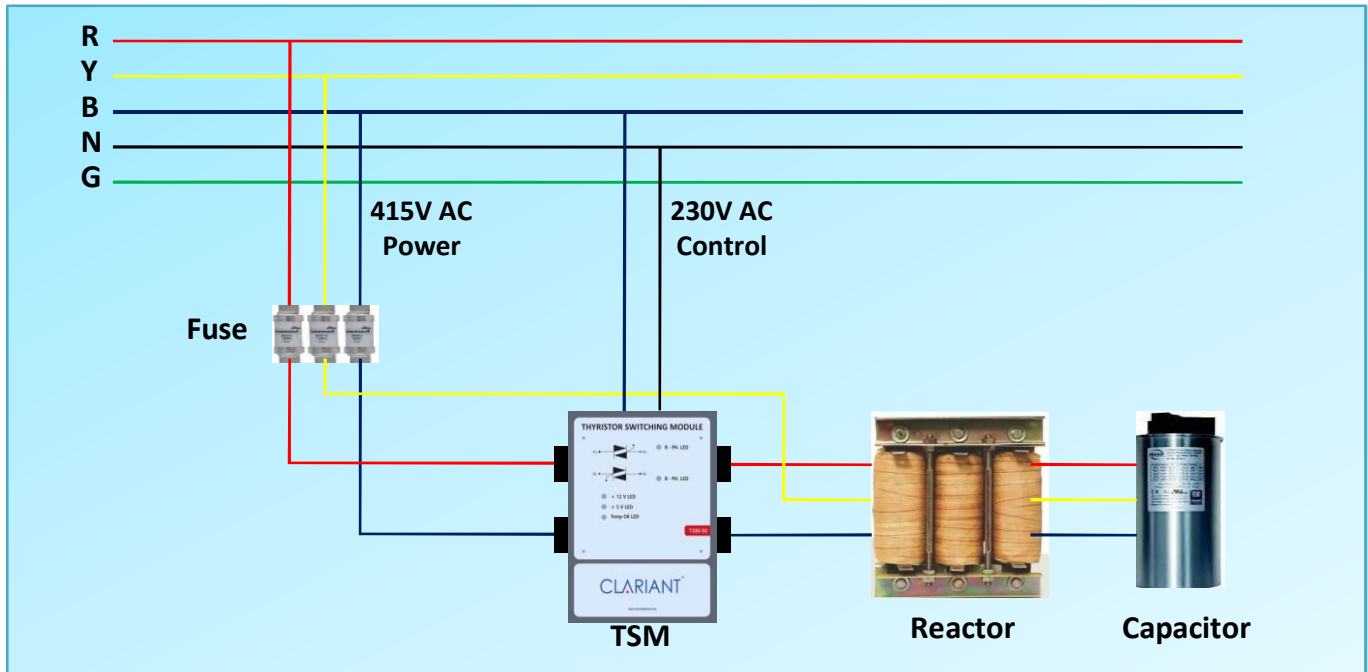
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Connection Diagram



General:

- Detuned/Tuned Series Reactor is recommended in series with capacitor for thyristor module switching.
- Use Semiconductor or Fast acting HRC fuses at input side.

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