

Non-isolated Thyristor Module

Features

- Low voltage three-phase
- High surge current of 2500A @ 60Hz
- Easy construction
- Non-isolated
- Mounting base as common anode

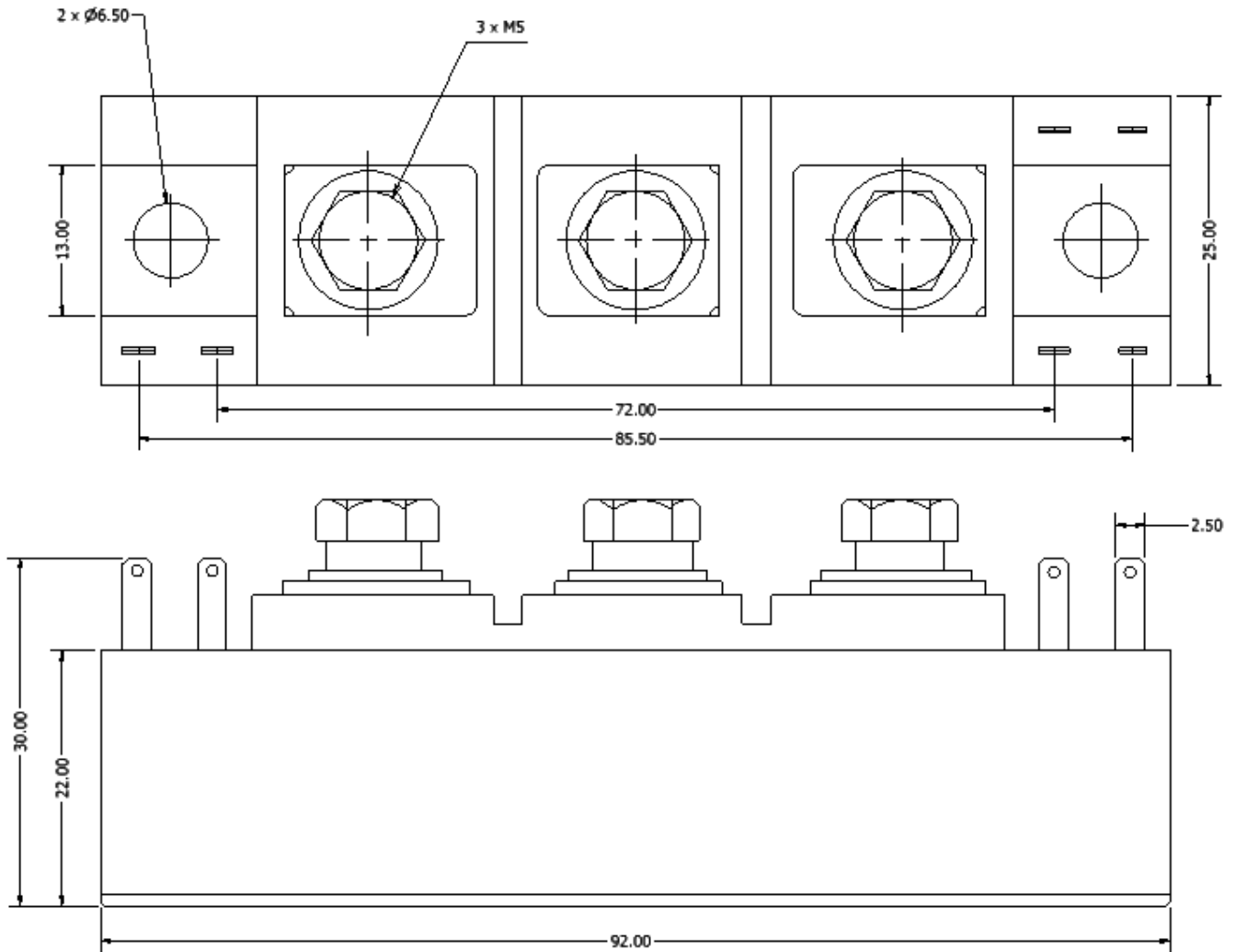
| Voltage Ratings ($T_C = 25^\circ\text{C}$ unless otherwise specified) | | | |
|--|-----------|--------|-------|
| Parameter | Symbol | Values | Units |
| Maximum repetitive peak reverse voltage | V_{RRM} | 300 | V |
| Maximum non-repetitive peak reverse voltage | V_{RSM} | 360 | V |
| Maximum repetitive peak off-state voltage | V_{DRM} | 300 | V |



NT3

| Electrical Characteristics ($T_C = 25^\circ\text{C}$ unless otherwise specified) | | | | |
|---|--|--------------|--------|------------------------|
| Parameter | Conditions | Symbol | Values | Units |
| Average on-state current | Single phase, half-wave, 180° conduction @ $T_C = 116^\circ\text{C}$ | $I_{T(AV)}$ | 80 | A |
| R.M.S. on-state current | | $I_{T(RMS)}$ | 125 | A |
| On-state surge current | half cycle, 50Hz/60Hz, peak value, non-repetitive | I_{TSM} | 2280 | A |
| I^2t required for fusing | | I^2t | 26000 | A^2S |
| Peak gate power dissipation | | P_{GM} | 10 | W |
| Average gate power dissipation | | $P_{GM(AV)}$ | 1 | W |
| Peak gate current | | I_{GM} | 3 | A |
| Peak gate voltage (forward) | | VFGM | 10 | V |
| Peak gate voltage (reverse) | | VRGM | 5 | V |
| Critical rate of rise of on-state current | $I_0 = 200\text{mA}$, $V_0 = \frac{1}{2} V_{DRM}$, $di_G/dt = 1 \text{ A}/\mu\text{s}$ | di/dt | 50 | $\text{A}/\mu\text{s}$ |
| Critical rate of rise of off-state voltage | $T_J = 150^\circ\text{C}$, $V_0 = \frac{2}{3} V_{DRM}$, exponential wave | dv/dt | 50 | $\text{V}/\mu\text{s}$ |
| Holding current | | I_H | 100 | mA |

| Thermal & Mechanical Specifications ($T_C = 25^\circ\text{C}$ unless otherwise specified) | | | |
|--|--------------|-------------|---------------------------|
| Parameter | Symbol | Values | Units |
| Operating junction temperature range | T_J | -30 to +150 | $^\circ\text{C}$ |
| Storage temperature range | T_{STG} | -30 to +125 | $^\circ\text{C}$ |
| Thermal resistance, junction to case | $R_{th(jc)}$ | 0.35 | $^\circ\text{C}/\text{W}$ |



ALL DIMENSIONS IN MM

Diode Configuration

