NTE5745
3 Phase Bridge Rectifier Module

Description:

The NTE5745 is a powerblock module designed for three−phase full wave rectification and contain six diodes connected in a three−phase bridge configuration. The mounting base of the module is electrically isolated from the semiconductor elements for simple heatsink construction.

Features:

- Isolated Mounting Base
- Pressure Contact Technology with Increased Power Cycling Capability
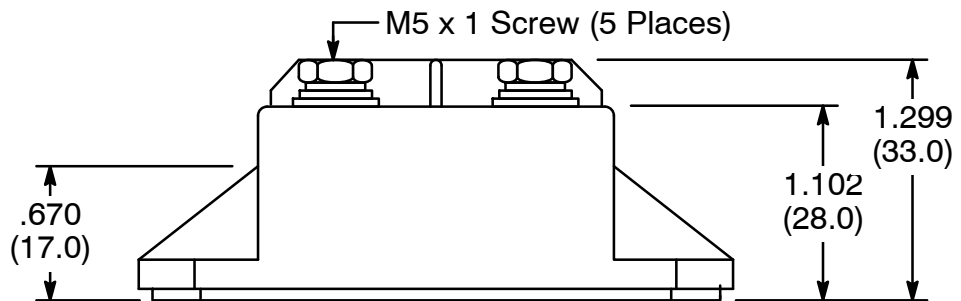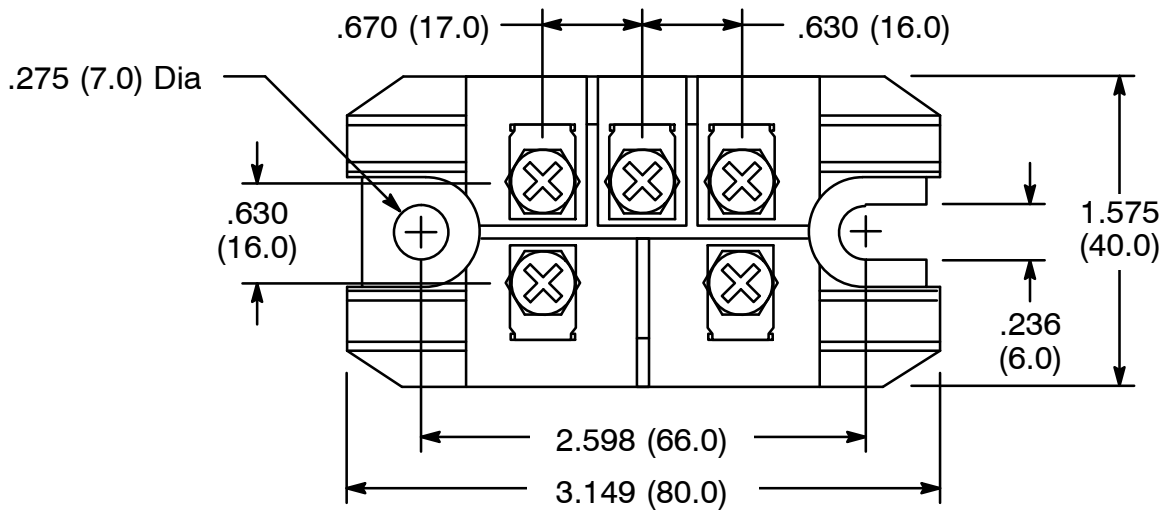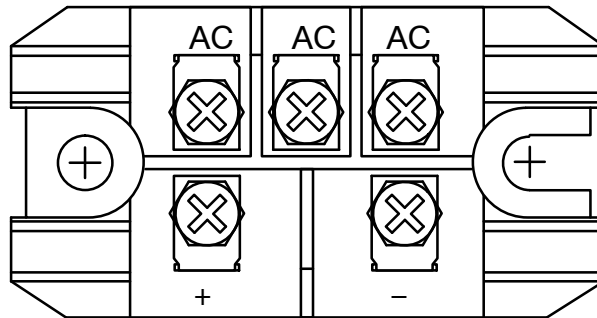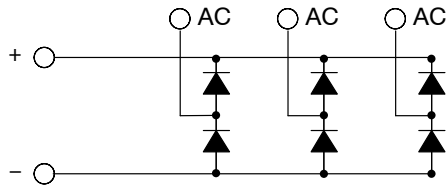- Space and Weight Savings

Applications:

- Inverter
- Inductive Heating
- Chopper

Electrical Characteristics: (T_J = +150°C unless otherwise specified)

Maximum DC Output Current (T_C = +100°C, Three−phase, full wave rectifying circuit), I_O . . . 100A

Repetitive Peak Reverse Voltage (V_{RSM} = 1800V, t_p = 10ms), V_{RRM} 1600V

Maximum Repetitive Peak Current (V_{RRM} = 1600V), I_{RRM} 8mA

Maximum Surge Forward Current (V_R = 0.6V_{RRM}, 10ms Half sine wave), I_{FSM} 1200A

Maximum I^2t for Fusing (V_R = 0.6V_{RRM}, 10ms Half sine wave), I^2t . . . . 7.2A^2s * 10^3

Maximum Threshold Voltage, V_{FO} 0.8V

Maximum Forward Slope Resistance, r_F 4.5mΩ

Maximum Peak Forward Voltage ($_J$ = +25°C, I_{FM} = 100A), V_{FM} 1.3V

Storage Temperature Range, T_{stg} . . . . −40° to +125°C

Isolation Breakdown Voltage (50Hz, RMS, t = 1min, I_{ISO} = 1mA max), V_{ISO} 2500V

Thermal Resistance, Junction−to−Case (Single Side Cooled), R_{thJC} . . . . 0.2°C/W

Thermal Resistance, Case−to−Heatsink (Single Side Cooled), R_{thCH} . . . . 0.07°C/W

Circuit Diagram

AC AC AC

+

−

AC AC AC

+ −

.670 (17.0)   .630 (16.0)

.275 (7.0) Dia

.630
(16.0)

1.575
(40.0)

.236
(6.0)

2.598 (66.0)

3.149 (80.0)

M5 x 1 Screw (5 Places)

1.299
(33.0)

1.102
(28.0)

.670
(17.0)

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