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NTE5744 3 Phase Bridge Rectifier Module

Description:

The NTE5744 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.

Applications:

- Inverters for AC Motors
- Power Supply Units for DC Motors
- DC Power Supply Units for Battery Chargers
- General Purpose DC Power Supply Units

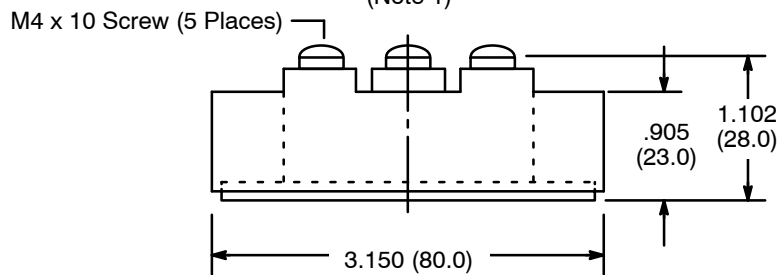
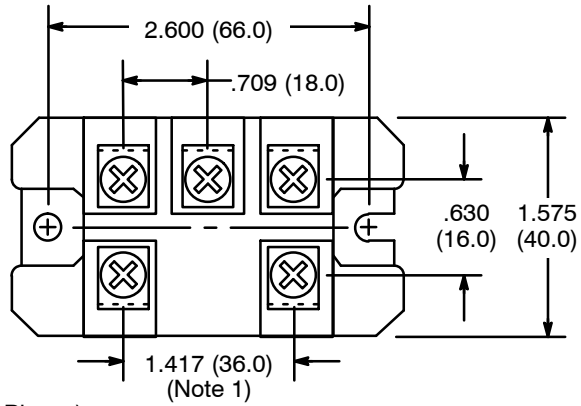
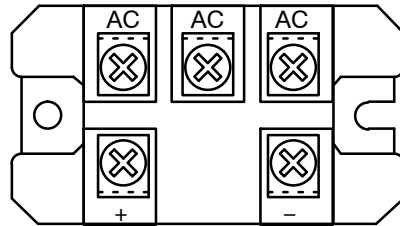
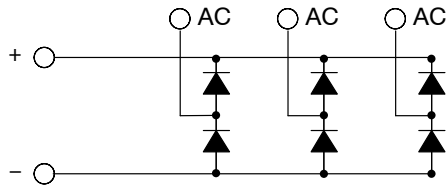
Absolute Maximum Ratings:

Repetitive Peak Reverse Voltage, V_{RRM}	800V
Non-Repetitive Peak Reverse Voltage, V_{RSM}	880V
Average Output Current (50/60Hz, Sinewave, $T_C = +103^\circ\text{C}$), I_D	100A
Surge Forward Current (Rated Load Conditions), I_{FSM}	1200A
Maximum I^2t for Fusing (Rated Load Conditions), I^2t	6000A ² sec
Operating Junction Temperature Range, T_J	-40° to +150°C
Storage Temperature Range, T_{stg}	-40° to +125°C
Isolation Breakdown Voltage (RMS, Main Terminal to Case, 1sec), V_{ISO}	2500V
Thermal Resistance, Junction-to-Case, R_{thJC} (50/60Hz Sinewave, Thermal Resistance for Total Loss)	0.22°C/W
Thermal Resistance (With Thermal Compound), R_{thCF}	0.06°C/W

Electrical Characteristics:

Parameter	Symbol	Test Conditions	Rating	Unit
Maximum Repetitive Peak Reverse Current	I_{RRM}	$T_J = +150^\circ\text{C}$, $V_{RRM} = 800\text{V}$	10	mA
Maximum Forward Voltage Drop	V_{FM}	$T_J = +25^\circ\text{C}$, $I_{FM} = 100\text{A}$	1.15	V

Circuit Diagram



Note 1. Screws may be closer together at: 1.190 (30.0)

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