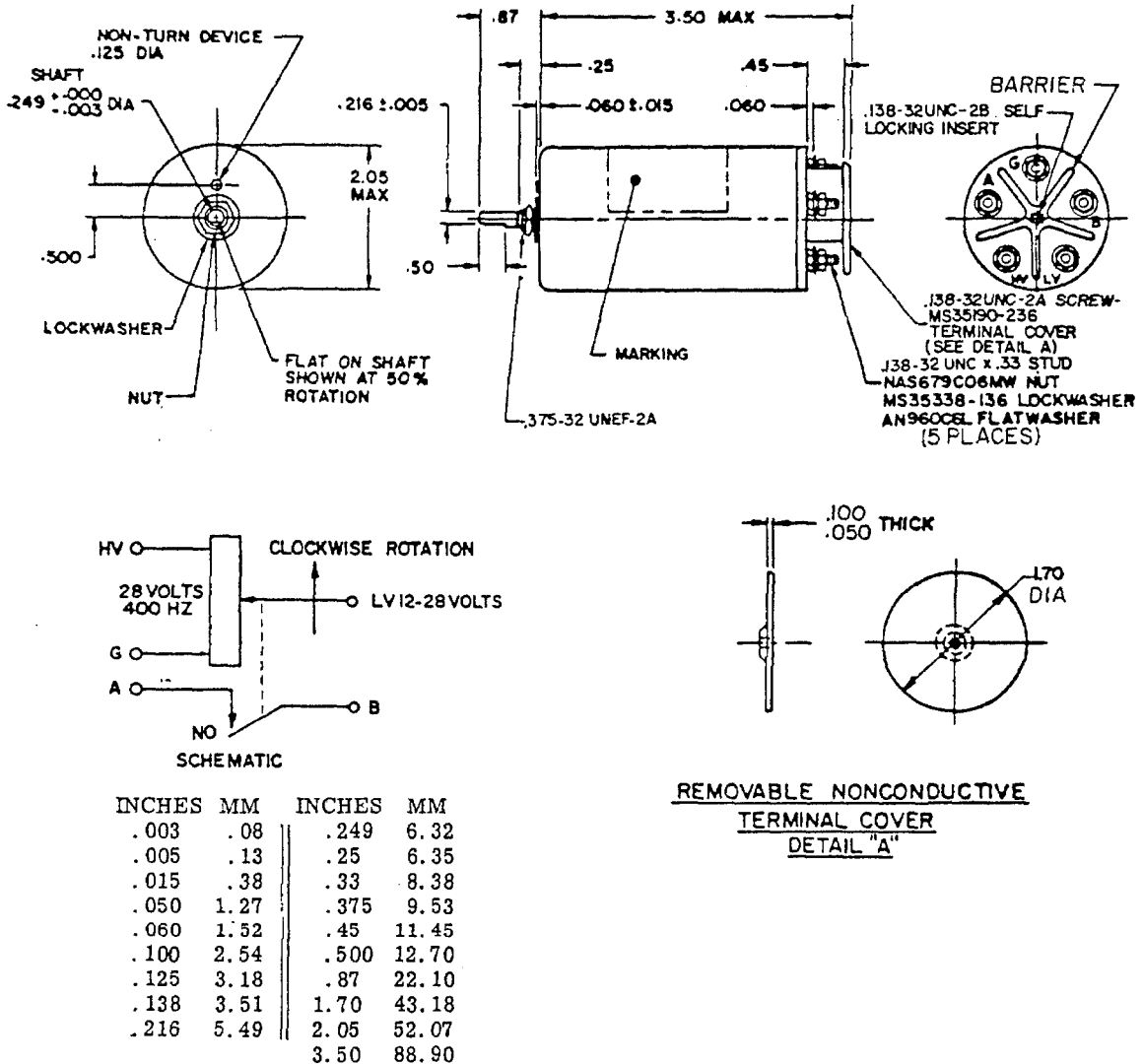


MILITARY SPECIFICATION SHEET
TRANSFORMER, VARIABLE, POWER, 400 HZ

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The complete requirements for procuring the transformer described herein shall consist of this document and the latest issue of Specification MIL-T-83721.



NOTES:

1. Dimensions are in inches.
2. Metric equivalents (to the nearest .01 mm) are given for general information only and are based upon 1 inch = 25.4 mm.
3. Unless otherwise specified, tolerances are ±.010 (.25 mm) for three place decimals and ±.03 (.76 mm) for two place decimals.

FIGURE 1. Dimensions and configuration.

REQUIREMENTS:

Design and construction:

Dimensions and configuration: See figure 1.

Class: II.

Enclosure: Applicable.

Weight: 0.65 pound maximum.

Switch: Part No. MS24547-1. Switch to close within 10 degrees of maximum rotation.

Temperature range: -54° to 71°C.

Electrical ratings:

Input: 24.2 - 30.4 volts rms, 400 ±40 Hz.

Output: See table I.

Resistive load: 11.5 ampere lamp load.

TABLE I. Rotational parameters.

Shaft rotation	Linear output voltage	Switch position
0°	12 ⁺⁵ _{-.0}	Open
265° min	28 ±.5	Open

Angular rotation : 295 ⁺⁵₋₀ degrees angular rotation.

Shaft torque: 20 ounce-inches minimum (torque shall be sufficient to prevent self-rotation by vibration).

Dielectric withstanding voltage:

At atmospheric pressure: 25 applications of 1,050 volts rms.

At barometric pressure: Method 105 of MIL-STD-202, test condition C (70,000 feet); test voltage, 300 volts rms.

Electrical characteristics:

Voltage regulation: 1.78 percent.

Efficiency: 86 percent minimum at 28 volts rms, input and rated load.

Temperature rise: 60°C at 25°C ambient with 28 volts rms, 400 Hz.

Salt spray (corrosion): Applicable.

Vibration, high frequency: Applicable.

Shock (specified pulse): Method 213 of MIL-STD-202, test condition I.

Life (rotational): Method 206 of MIL-STD-202, test condition E (15,000 cycles).

Fungus: Applicable.

Part number: M83721/1-01.

Custodians:

Army - EL
Navy - EC
Air Force - 85

Preparing activity:

Air Force - 85

Project No. 5950-0470-1

Review activities:

Army - EL, MU
Navy - EC
Air Force - 11, 17, 80
DSA - ES

User activities:

Army - EL, MI
Navy - MC, EC
Air Force - 19