

NOTE: The document identifier and heading have been changed on this page to reflect that this is a performance specification. There are no other changes to this document. The document identifier on subsequent pages has not been changed, but will be changed the next time this document is revised.

INCH-POUND

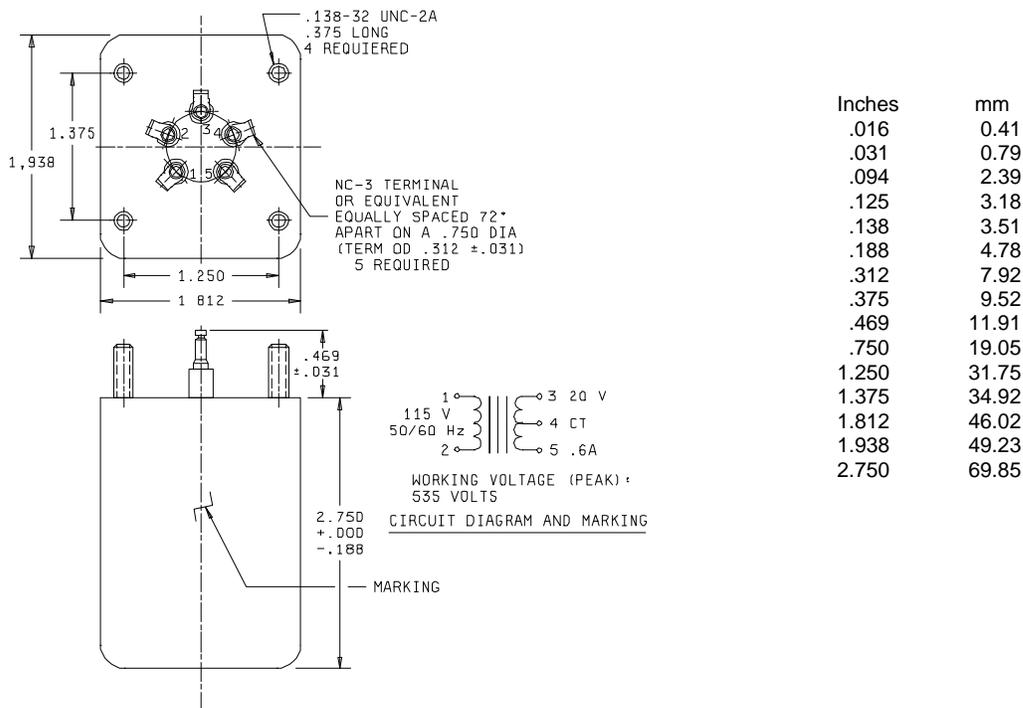
MIL-PRF-27/155B
 14 February 1995
 SUPERSEDING
 MIL-T-27/155A
 26 October 1977

PERFORMANCE SPECIFICATION SHEET

TRANSFORMER, POWER, STEPDOWN, TF4S03EA

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

The requirements for acquiring the product described herein shall consist of this specification sheet and the issue of the following specification listed in that issue of the Department of Defense Index of Specifications and Standards (DODISS) specified in the solicitation: MIL-T-27.



NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Tolerance on terminal position dimensions is ±.016 inch.
4. Unless otherwise specified, tolerance on overall case dimensions shall be +.000, -.125 inch.
5. Marking shall be on the side of the case.

FIGURE 1. Dimensions and configuration.

(B) denotes changes

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REQUIREMENTS: (When numbers in parentheses, i.e., (1-2) are used, they indicate the winding and the extreme terminals of the windings.)

Electrical ratings:

Primary voltage (1-2): 115 volts rms, 50/60 Hz.

Voltamperes: 12.

Secondary voltage (3-5): 20 volts rms, center-tap.

Secondary current (3-5): 0.6 ampere.

Working voltage (peak): 535 volts.

Design and construction:

Dimensions and configuration: See figure 1.

Duty cycle: Continuous.

Case: Metal encased.

ⓑ Terminals: Solder terminal Lundey #399E or equivalent.

ⓑ Terminal height: .469 ±.031 inch (11.92 ±0.79 mm).

ⓑ Weight: 20.9880 ounce, maximum.

Operating temperature range: -55°C to +130°C.

Terminal strength: MIL-STD-202, method 211, test condition A, 5.0 pounds and test condition E, 8.0 ounce-inches.

Shock (specified pulse): MIL-STD-202, method 213, test condition H.

Dielectric withstanding voltage (at sea level): 1,500 volts rms.

Electrical characteristics:

No load: With 115 volts, 60 Hz across (1-2), current in (1-2) shall not exceed 35 mA and the power in (1-2) shall not exceed 0.8 watts.

Rated load: With 115 volts, 60 Hz across (1-2), the voltage across (3-5) shall be 20 volts ±5 percent.

DC resistance:

(1-2): 82 ohms, maximum.

(3-5): 3.44 ohms, maximum.

Polarity: Additive, with terminals 2 and 3 connected.

Temperature rise: 40°C with 115 volts rms, 60 Hz across (1-2) at an ambient temperature of 90°C.

Marking location: See figure 1.

ⓑ Part or Identifying Number (PIN): M27/155-01.

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CONCLUDING MATERIAL

Custodians:

Army - ER
Navy - EC
Air Force - 85

Review activities:

Army - AR, ME, MI
Navy - AS, MC, OS, SH
Air Force - 17, 19, 99
DLA - ES

Preparing activity:

Army - ER

Agent:

DLA - ES

(Project 5950-0841)