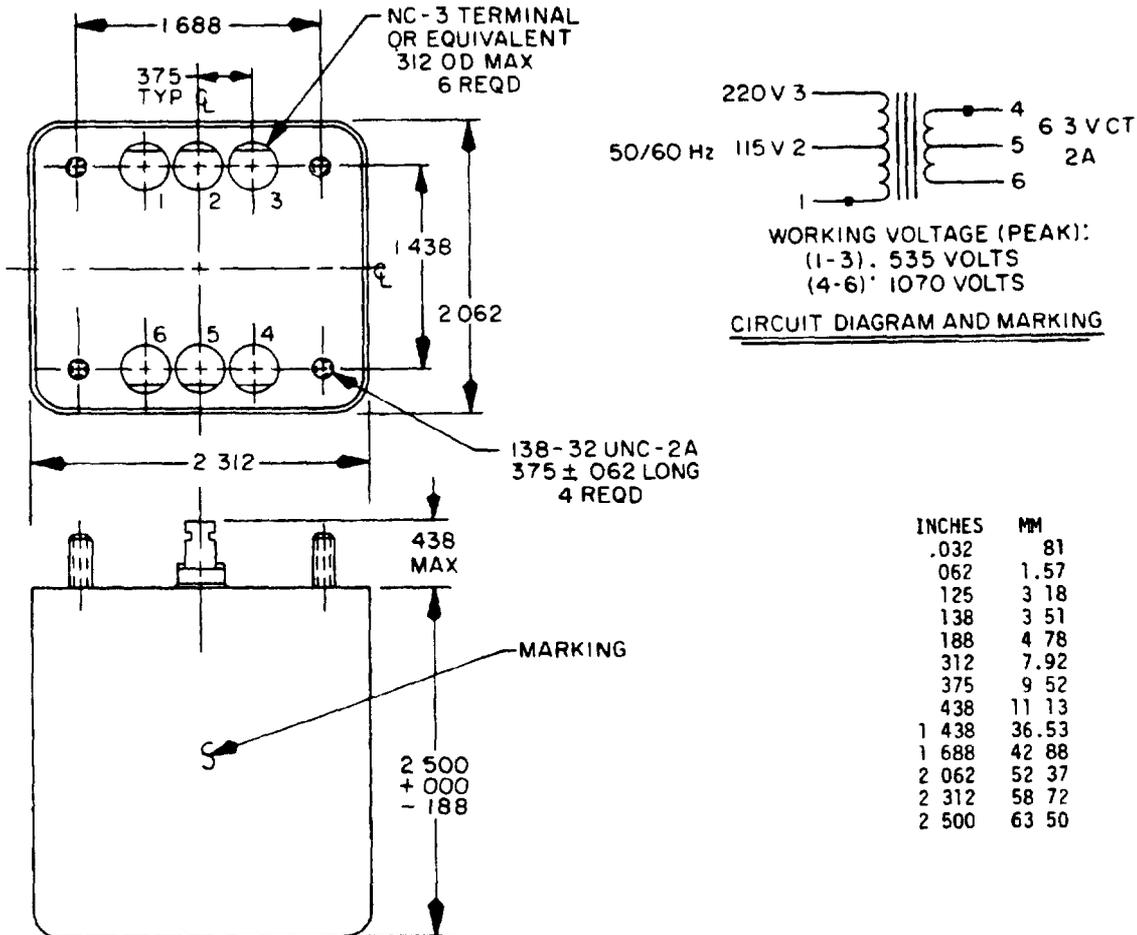


MILITARY SPECIFICATION SHEET

TRANSFORMER, POWER, STEP-DOWN, TF4S03FB

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-27



NOTES

- 1 Dimensions are in inches
- 2 Metric equivalents are given for general information only and are based upon 1.00 inch = 25.4 mm
3. Unless otherwise specified, tolerance on overall dimensions is + .000, - .125 inch
- 4 Tolerance on terminal position dimensions is ± .032 inch
- 5 Marking shall be on the side of the case

FIGURE 1 Dimensions and configuration

(A) denotes change

MIL-T-27/153A

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

Electrical ratings

Primary voltage

(1-2) 115 volts rms, 50/60 hertz

(1-3) 220 volts rms, 50/60 hertz

VA 12.6

Secondary voltage (4-6) 6.3 volts rms ct

Secondary current (4-6) 2.0 amperes rms.

Working voltage (peak)

(1-3) 535 volts.

(4-6) 1070 volts.

Design and construction

Dimensions and configuration See figure 1

Duty cycle Continuous.

Case Metal.

Terminals Solder terminal, NC-3 or equivalent.

Terminal height 0.438 inch, maximum

Weight 816 grams, maximum

Operating temperature range -55° to +130°C

Terminal strength MIL-STD-202, method 211, test condition A, 5.0 pounds

Dielectric withstanding voltage (at sea level)

(1-3) 1500 volts rms.

(4-6) 2500 volts rms.

Electrical characteristics

No load With 115 volts, 60 hertz across (1-2), current in (1-2) shall not exceed

100 milliamperes and the power in (1-2) shall not exceed 2 watts

Voltage across (4-6) 7.05 volts  $\pm 3$  percent

(A) Rated load With 115 volts, 60 hertz across (1-2), the voltage across (4-6) shall be 6.3 volts  $\pm 5$  percent

DC resistance

(1-3) 200 ohms, maximum

(4-6) 0.15 ohm, maximum

Polarity Additive with 3 and 4 connected

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

Marking location: See figure 1

Part number: M27/153-01.

Custodians

Army - EL

Navy - EC

Air Force - 85

Preparing activity

Army - EL

Agent

DLA - ES

Review activities

Army - MI

Navy - SH, OS

Air Force - 11, 17, 99

DLA - ES

(Project 5950-0556-2)

User activities

Army - AR, WC, ME

Navy - MC, AS

Air Force - 19

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NAME OF ORGANIZATION AND ADDRESS OF SUBMITTER

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