

INCH-POUND

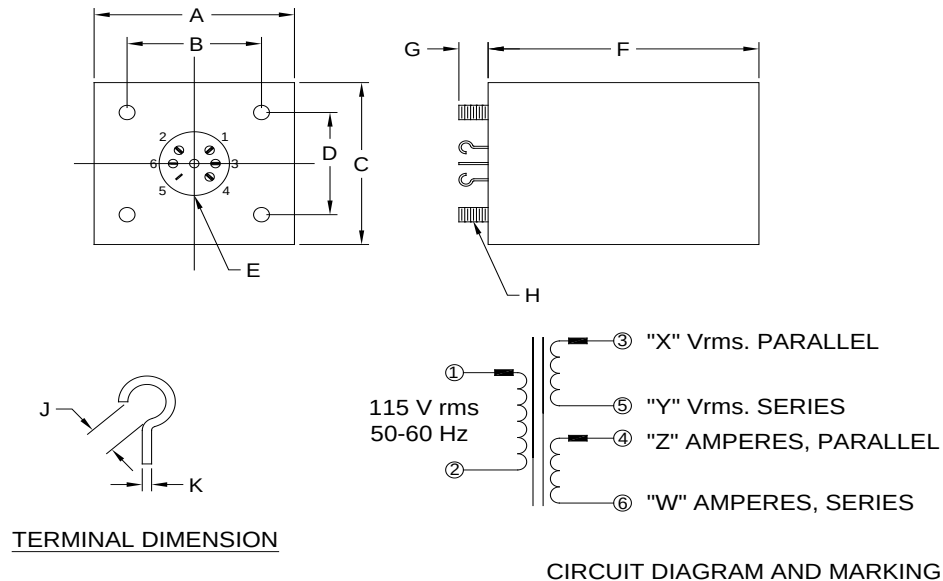
MIL-PRF-27/360A
W/AMENDMENT 1
27 June 2018
SUPERSEDING
MIL-PRF-27/360A
22 April 2011

PERFORMANCE SPECIFICATION

TRANSFORMERS, POWER, 15 VA, ELECTROSTATIC SHIELDED

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 latest issue of MIL-PRF-27.



NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Marking shall be on the side of the case.
4. Primary and secondary electrical values shall be marked as specified in table I, as applicable.
5. The number of terminals shall be as shown in circuit diagram "A" and "B".

FIGURE 1. Dimensions and configuration.



MIL-PRF-27/360A
W/AMENDMENT 1

	Inches	mm
A	2.312 +.000, -.125	58.72 +.000, -3.18
B	1.688 ±.016	42.88 ±0.45
C	2.062 +.000, -.125	52.37 +.000, -3.18
D	1.438 ±.016	37.67 ±0.45
E	.875 ±.063	22.23 ±1.60
F	3.125 +.000, -.188	79.38 +.000, -4.78
G	.375 ±.063	9.53 ±1.60
H	.138-32 UNC-2A X .375 ±.063 (4 Places)	
J	.070 ±.005	1.78 ±0.13
K	.062 ±.005	1.57 ±0.13

FIGURE 1. Dimensions and configurations - Continued.

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 V rms, 50 to 65 hertz.

Primary dc resistance: 22.1 ohms ±25 percent.

Secondary: See table I.

Volt-ampere rating: 15 volt-amperes.

Working voltage: 535 volts peak.

Design and construction:

Dimensions and configuration: See figure 1.

Duty cycle: Continuous.

Case: Metal enclosed.

Material: Steel.

Terminals: Solderable hook terminals.

Terminal height: 0.375 ±0.063 inch.

Terminal diameter: 0.062 ±0.005 inch.

Weight: 2.2 pounds, maximum.

MIL-PRF-27/360A
W/AMENDMENT 1

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

Altitude: 10,000 feet.

Terminal strength: MIL-STD-202-211, test condition A, 2.0 pounds.

Dielectric withstanding voltage (each winding, secondary winding shall be connected in parallel):

At sea level: 1,500 volts rms.

Electrical characteristics:

Rated load: With 115 volts ac and 60 Hz across (1-2), and rated current in secondary, secondary voltage shall be as specified in table I within ± 3 percent.

Regulation:
$$\frac{\text{Voltage (no load)} - \text{Voltage (rated load)}}{\text{Voltage (rated load)}} \times 100$$

Shall not exceed 10 percent.

Polarity: Additive with terminals 2 and 3 connected and 5 and 4 connected.

Electrostatic shielding: The voltage ratio shall be a minimum of 5 to 1 at 20 kHz.

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 or Identifying Number (PIN): M27/360- (dash number from table I).

TABLE I. Electrical ratings.

Dash no.	Secondary voltage (series) volts rms (3-6)	Secondary current (series) amperes (3-6)	Secondary voltage (parallel) volts rms (3-5)	Secondary current (parallel) amperes (3-5)	Secondary dc resistance each winding ohms $\pm 25\%$
01	12.6	1.19	6.3	2.38	0.167

VERIFICATION:

Extent of qualification:

Qualification by similarity: Qualification testing and approval to M27/327-02 shall be sufficient to permit qualification inspection by similarity in accordance with MIL-PRF-27.

MIL-PRF-27/360A
W/AMENDMENT 1

Amendment notations. The margins of this specification are marked with vertical lines to indicate modifications generated by this amendment. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations.

Referenced documents. In addition to MIL-PRF-27, this document references the following:

MIL-STD-202-211

Custodians:

Army - CR
Navy - EC
Air Force - 85
DLA - CC

Preparing activity:

DLA - CC

(Project number 5950-2018-011)

Review activities

Army - AR, CR4
Navy – AS, MC, OS
Air Force – 19, 99

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil>