

# 60Hz MIL-PRF-27 Power Transformers

- Military Designation TF4S03YY
- Threaded inserts for versatile mounting
- Hermetically sealed, rugged MIL-PRF-27 transformers
- Wide range of power ratings: 5, 10, 15, 20, 30, 40, 80, 120, 160, 200, and 300 VA
- Standard output voltages: 5 to 486 volts



## Specifications

### Input Primary:

115 VAC, 60Hz +5Hz\*\*, 1 phase.

"A" Option: 230 VAC. Add suffix "A" to model number, e.g., 5P10CTA (See Fig. 1).

"B" Option: 115/230 VAC. Add suffix "B" to model number, e.g., 5P10CTB (See Fig. 2).

\*\*For 50Hz operation, reduce secondary current by 10% of listed ratings. (These units are capable of 400Hz operation.)

### Regulation:

12% or less no load to full load (Sizes A1-A2) 10% or less no load to full load (Sizes A3-A11).

*Dimensions and mechanical drawings on Page 4*

### Secondary Voltage Tolerance:

Within 3% of listed output voltage when measured at full load and listed input.

**Dielectric Withstanding Voltage:**  
1750 VAC.

**Efficiency:**  
Ranges from 80% to 90% typical.

**Construction:**  
To MIL-PRF-27, Grade 4, Class S; steel case.

### Environment:

Encapsulated to meet MIL-STD-810 for vibration, shock, acceleration, sand, dust, humidity, saltspray, fungus, sunshine, rain, explosion, and altitude.

NOTE: For high altitude operation, encapsulate terminals.

### Output Secondary:

See output voltage and current of specific models listed.

**Other outputs and/or inputs available upon request.**



### MAIN OFFICE:

8203 Vineland Avenue, Sun Valley, CA 91352 – 818-504-0644 – FAX: 818-768-0395

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## 60Hz MIL-PRF-27 Power Transformers

| Output Volts (FL) | Output Current (Amp) | Size | Secondary DCR Ohms (Typical) | Model No.  | QPL Model No. |
|-------------------|----------------------|------|------------------------------|------------|---------------|
| 5.0               | 1.00                 | A1   | 0.335                        | 5P5CT      | M27/312-01    |
|                   | 2.00                 | A2   | 0.12                         | 10P5CT     | M27/313-01    |
|                   | 3.00                 | A3   | 0.07                         | 15P5CT     | M27/314-01    |
|                   | 4.00                 | A4   | 0.066                        | 20P5CT     | M27/315-01    |
|                   | 6.00                 | A5   | 0.04                         | 30P5CT     | M27/316-01    |
|                   | 8.00                 | A6   | 0.03                         | 40P5CT     | M27/317-01    |
|                   | 16.00                | A7   | 0.011                        | 80P5CT     | M27/318-01    |
| 6.3               | 0.79                 | A1   | 0.53                         | 5P6.3CT    | M27/312-02    |
|                   | 1.58                 | A2   | 0.18                         | 10P6.3CT   | M27/313-02    |
|                   | 2.38                 | A3   | 0.094                        | 15P6.3CT   | M27/314-02    |
|                   | 3.16                 | A4   | 0.1                          | 20P6.3CT   | M27/315-02    |
|                   | 4.76                 | A5   | 0.06                         | 30P6.3CT   | M27/316-02    |
|                   | 6.35                 | A6   | 0.059                        | 40P6.3CT   | M27/317-02    |
|                   | 12.70                | A7   | 0.016                        | 80P6.3CT   | M27/318-02    |
|                   | 19.00                | A8   | 0.012                        | 120P6.3CT  | M27/319-01    |
| 8.0               | 0.67                 | A1   | 0.87                         | 5P8CT      | M27/312-03    |
|                   | 1.25                 | A2   | 0.27                         | 10P8CT     | M27/313-03    |
|                   | 1.88                 | A3   | 0.16                         | 15P8CT     | M27/314-03    |
|                   | 2.50                 | A4   | 0.15                         | 20P8CT     | M27/315-03    |
|                   | 3.76                 | A5   | 0.08                         | 30P8CT     | M27/316-03    |
|                   | 5.00                 | A6   | 0.079                        | 40P8CT     | M27/317-03    |
|                   | 10.00                | A7   | 0.037                        | 80P8CT     | M27/318-03    |
|                   | 15.00                | A8   | 0.018                        | 120P8CT    | M27/319-02    |
|                   | 20.00                | A9   | 0.014                        | 160P8CT    | M27/320-01    |
|                   |                      |      |                              |            |               |
| 10                | 0.50                 | A1   | 1.34                         | 5P10CT     | M27/312-04    |
|                   | 1.00                 | A2   | 0.42                         | 10P10CT    | M27/313-04    |
|                   | 1.50                 | A3   | 0.23                         | 15P10CT    | M27/314-04    |
|                   | 2.00                 | A4   | 0.23                         | 20P10CT    | M27/315-04    |
|                   | 3.00                 | A5   | 0.14                         | 30P10CT    | M27/316-04    |
|                   | 4.00                 | A6   | 0.11                         | 40P10CT    | M27/317-04    |
|                   | 8.00                 | A7   | 0.05                         | 80P10CT    | M27/318-04    |
|                   | 12.00                | A8   | 0.031                        | 120P10CT   | M27/319-03    |
|                   | 16.00                | A9   | 0.018                        | 160P10CT   | M27/320-02    |
|                   | 20.00                | A10  | 0.015                        | 200P10CT   | M27/321-01    |
|                   |                      |      |                              |            |               |
| 12.6              | 0.39                 | A1   | 2.06                         | 5P12.6CT   | M27/312-05    |
|                   | 0.79                 | A2   | 0.65                         | 10P12.6CT  | M27/313-05    |
|                   | 1.19                 | A3   | 0.4                          | 15P12.6CT  | M27/314-05    |
|                   | 1.59                 | A4   | 0.34                         | 20P12.6CT  | M27/315-05    |
|                   | 2.38                 | A5   | 0.2                          | 30P12.6CT  | M27/316-05    |
|                   | 3.18                 | A6   | 0.18                         | 40P12.6CT  | M27/317-05    |
|                   | 6.35                 | A7   | 0.7                          | 80P12.6CT  | M27/318-05    |
|                   | 9.53                 | A8   | 0.041                        | 120P12.6CT | M27/319-04    |
|                   | 12.70                | A9   | 0.038                        | 160P12.6CT | M27/320-03    |
|                   | 15.90                | A10  | 0.027                        | 200P12.6CT | M27/321-02    |
|                   |                      |      |                              |            |               |
| 14                | 0.36                 | A1   | 2.95                         | 5P14CT     | M27/312-06    |
|                   | 0.72                 | A2   | 0.74                         | 10P14CT    | M27/313-06    |
|                   | 1.07                 | A3   | 0.6                          | 15P14CT    | M27/314-06    |
|                   | 1.43                 | A4   | 0.4                          | 20P14CT    | M27/315-06    |
|                   | 2.15                 | A5   | 0.23                         | 30P14CT    | M27/316-06    |
|                   | 2.86                 | A6   | 0.19                         | 40P14CT    | M27/317-06    |
|                   | 5.72                 | A7   | 0.1                          | 80P14CT    | M27/318-06    |
|                   | 8.59                 | A8   | 0.055                        | 120P14CT   | M27/319-05    |
|                   | 11.40                | A9   | 0.042                        | 160P14CT   | M27/320-04    |
|                   | 14.30                | A10  | 0.029                        | 200P14CT   | M27/321-03    |
|                   |                      |      |                              |            |               |
| 16                | 0.34                 | A1   | 3.35                         | 5P16CT     | M27/312-07    |
|                   | 0.68                 | A2   | 1.08                         | 10P16CT    | M27/313-07    |
|                   | 0.94                 | A3   | 0.67                         | 15P16CT    | M27/314-07    |
|                   | 1.25                 | A4   | 0.52                         | 20P16CT    | M27/315-07    |
|                   | 1.87                 | A5   | 0.28                         | 30P16CT    | M27/316-07    |
|                   | 2.50                 | A6   | 0.28                         | 40P16CT    | M27/317-07    |
|                   | 5.00                 | A7   | 0.12                         | 80P16CT    | M27/318-07    |
|                   | 7.50                 | A8   | 0.072                        | 120P16CT   | M27/319-06    |
|                   | 10.00                | A9   | 0.046                        | 160P16CT   | M27/320-05    |
|                   | 12.50                | A10  | 0.034                        | 200P16CT   | M27/321-04    |
|                   | 18.70                | A11  | 0.016                        | 300P16CT   | M27/322-01    |
| 18                | 0.28                 | A1   | 4.65                         | 5P18CT     | M27/312-08    |
|                   | 0.55                 | A2   | 1.42                         | 10P18CT    | M27/313-08    |
|                   | 0.83                 | A3   | 0.78                         | 15P18CT    | M27/314-08    |
|                   | 1.11                 | A4   | 0.62                         | 20P18CT    | M27/315-08    |
|                   | 1.67                 | A5   | 0.38                         | 30P18CT    | M27/316-08    |
|                   | 2.21                 | A6   | 0.36                         | 40P18CT    | M27/317-08    |
|                   | 4.44                 | A7   | 0.16                         | 80P18CT    | M27/318-08    |
|                   | 6.68                 | A8   | 0.08                         | 120P18CT   | M27/319-07    |
|                   | 8.89                 | A9   | 0.06                         | 160P18CT   | M27/320-06    |
|                   | 11.10                | A10  | 0.045                        | 200P18CT   | M27/321-05    |
|                   | 16.70                | A11  | 0.02                         | 300P18CT   | M27/322-02    |

| Output Volts (FL) | Output Current (Amp) | Size | Secondary DCR Ohms (Typical) | Model No. | QPL Model No. |
|-------------------|----------------------|------|------------------------------|-----------|---------------|
| 20                | 0.25                 | A1   | 5.25                         | 5P20CT    | M27/312-09    |
|                   | 0.50                 | A2   | 1.54                         | 10P20CT   | M27/313-09    |
|                   | 0.75                 | A3   | 0.9                          | 15P20CT   | M27/314-09    |
|                   | 1.00                 | A4   | 0.85                         | 20P20CT   | M27/315-09    |
|                   | 1.50                 | A5   | 0.4                          | 30P20CT   | M27/316-09    |
|                   | 2.00                 | A6   | 0.43                         | 40P20CT   | M27/317-09    |
|                   | 4.00                 | A7   | 0.19                         | 80P20CT   | M27/318-09    |
|                   | 6.00                 | A8   | 0.12                         | 120P20CT  | M27/319-08    |
|                   | 8.00                 | A9   | 0.07                         | 160P20CT  | M27/320-07    |
|                   | 10.00                | A10  | 0.066                        | 200P20CT  | M27/321-06    |
|                   | 15.00                | A11  | 0.023                        | 300P20CT  | M27/322-03    |
| 22                | 0.22                 | A1   | 7.3                          | 5P22CT    | M27/312-10    |
|                   | 0.45                 | A2   | 1.9                          | 10P22CT   | M27/313-10    |
|                   | 0.68                 | A3   | 1.2                          | 15P22CT   | M27/314-10    |
|                   | 0.91                 | A4   | 0.95                         | 20P22CT   | M27/315-10    |
|                   | 1.36                 | A5   | 0.55                         | 30P22CT   | M27/316-10    |
|                   | 1.82                 | A6   | 0.57                         | 40P22CT   | M27/317-10    |
|                   | 3.64                 | A7   | 0.25                         | 80P22CT   | M27/318-10    |
|                   | 5.45                 | A8   | 1.25                         | 120P22CT  | M27/319-09    |
|                   | 7.27                 | A9   | 0.092                        | 160P22CT  | M27/320-08    |
|                   | 9.10                 | A10  | 0.073                        | 200P22CT  | M27/321-07    |
|                   | 13.60                | A11  | 0.031                        | 300P22CT  | M27/322-04    |
| 25                | 0.20                 | A1   | 8.23                         | 5P25CT    | M27/312-11    |
|                   | 0.40                 | A2   | 2.55                         | 10P25CT   | M27/313-11    |
|                   | 0.60                 | A3   | 1.4                          | 15P25CT   | M27/314-11    |
|                   | 0.80                 | A4   | 1.37                         | 20P25CT   | M27/315-11    |
|                   | 1.20                 | A5   | 0.7                          | 30P25CT   | M27/316-11    |
|                   | 1.60                 | A6   | 0.67                         | 40P25CT   | M27/317-11    |
|                   | 3.20                 | A7   | 0.3                          | 80P25CT   | M27/318-11    |
|                   | 4.80                 | A8   | 0.182                        | 120P25CT  | M27/319-10    |
|                   | 6.40                 | A9   | 0.11                         | 160P25CT  | M27/320-09    |
|                   | 8.00                 | A10  | 0.079                        | 200P25CT  | M27/321-08    |
|                   | 12.00                | A11  | 0.042                        | 300P25CT  | M27/322-05    |
| 28                | 0.18                 | A1   | 11.4                         | 5P28CT    | M27/312-12    |
|                   | 0.36                 | A2   | 3.0                          | 10P28CT   | M27/313-12    |
|                   | 0.54                 | A3   | 1.9                          | 15P28CT   | M27/314-12    |
|                   | 0.71                 | A4   | 1.6                          | 20P28CT   | M27/315-12    |
|                   | 1.07                 | A5   | 0.94                         | 30P28CT   | M27/316-12    |
|                   | 1.43                 | A6   | 0.90                         | 40P28CT   | M27/317-12    |
|                   | 2.86                 | A7   | 0.4                          | 80P28CT   | M27/318-12    |
|                   | 4.29                 | A8   | 0.205                        | 120P28CT  | M27/319-11    |
|                   | 5.72                 | A9   | 0.15                         | 160P28CT  | M27/320-10    |
|                   | 7.10                 | A10  | 0.11                         | 200P28CT  | M27/321-09    |
|                   | 10.70                | A11  | 0.046                        | 300P28CT  | M27/322-06    |
| 31                | 0.16                 | A1   | 13.8                         | 5P31CT    | M27/312-13    |
|                   | 0.32                 | A2   | 3.8                          | 10P31CT   | M27/313-13    |
|                   | 0.48                 | A3   | 2.2                          | 15P31CT   | M27/314-13    |
|                   | 0.64                 | A4   | 2.2                          | 20P31CT   | M27/315-13    |
|                   | 0.97                 | A5   | 0.96                         | 30P31CT   | M27/316-13    |
|                   | 1.29                 | A6   | 0.95                         | 40P31CT   | M27/317-13    |
|                   | 2.58                 | A7   | 0.45                         | 80P31CT   | M27/318-13    |
|                   | 3.87                 | A8   | 0.31                         | 120P31CT  | M27/319-12    |
|                   | 5.17                 | A9   | 0.166                        | 160P31CT  | M27/320-11    |
|                   | 6.40                 | A10  | 0.12                         | 200P31CT  | M27/321-10    |
|                   | 9.67                 | A11  | 0.054                        | 300P31CT  | M27/322-07    |
| 35                | 0.14                 | A1   | 17.6                         | 5P35CT    | M27/312-14    |
|                   | 0.29                 | A2   | 4.5                          | 10P35CT   | M27/313-14    |
|                   | 0.43                 | A3   | 3.0                          | 15P35CT   | M27/314-14    |
|                   | 0.57                 | A4   | 2.4                          | 20P35CT   | M27/315-14    |
|                   | 0.86                 | A5   | 1.4                          | 30P35CT   | M27/316-14    |
|                   | 1.14                 | A6   | 1.32                         | 40P35CT   | M27/317-14    |
|                   | 2.28                 | A7   | 0.5                          | 80P35CT   | M27/318-14    |
|                   | 3.43                 | A8   | 0.35                         | 120P35CT  | M27/319-13    |
|                   | 4.57                 | A9   | 0.24                         | 160P35CT  | M27/320-12    |
|                   | 5.71                 | A10  | 0.17                         | 200P35CT  | M27/321-11    |
|                   | 8.59                 | A11  | 0.072                        | 300P35CT  | M27/322-08    |
| 39                | 0.13                 | A1   | 19.7                         | 5P39CT    | M27/312-15    |
|                   | 0.26                 | A2   | 6.3                          | 10P39CT   | M27/313-15    |
|                   | 0.38                 | A3   | 3.5                          | 15P39CT   | M27/314-15    |
|                   | 0.51                 | A4   | 3.6                          | 20P39CT   | M27/315-15    |
|                   | 0.77                 | A5   | 1.62                         | 30P39CT   | M27/316-15    |
|                   | 1.03                 | A6   |                              | 40P39CT   | M27/317-15    |
|                   | 2.05                 | A7   |                              | 80P39CT   | M27/318-15    |
|                   | 3.07                 | A8   |                              | 120P39CT  | M27/319-14    |
|                   | 4.10                 | A9   |                              | 160P39CT  | M27/320-13    |
|                   | 5.12                 | A10  |                              | 200P39CT  | M27/321-12    |
|                   | 7.69                 | A11  |                              | 300P39CT  | M27/322-09    |

# 60Hz MIL-PRF-27 Power Transformers

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| Output Volts (FL) | Output Current (Amp) | Size | Secondary DCR Ohms (Typical) | Model No. | QPL Model No. |
|-------------------|----------------------|------|------------------------------|-----------|---------------|
| 43                | 0.12                 | A1   | 22.0                         | 5P43CT    | M27/312-16    |
|                   | 0.23                 | A2   | 7.0                          | 10P43CT   | M27/313-16    |
|                   | 0.35                 | A3   | 4.65                         | 15P43CT   | M27/314-16    |
|                   | 0.46                 | A4   | 4.0                          | 20P43CT   | M27/315-16    |
|                   | 0.70                 | A5   | 2.15                         | 30P43CT   | M27/316-16    |
|                   | 0.93                 | A6   | 1.62                         | 40P43CT   | M27/317-16    |
|                   | 1.85                 | A7   | 0.94                         | 80P43CT   | M27/318-16    |
|                   | 2.79                 | A8   | 0.48                         | 120P43CT  | M27/319-15    |
|                   | 3.70                 | A9   | 0.382                        | 160P43CT  | M27/320-14    |
|                   | 4.64                 | A10  | 0.26                         | 200P43CT  | M27/321-13    |
|                   | 6.95                 | A11  | 0.108                        | 300P43CT  | M27/322-10    |
| 48                | 0.10                 | A1   | 30.0                         | 5P48CT    | M27/312-17    |
|                   | 0.21                 | A2   | 9.3                          | 10P48CT   | M27/313-17    |
|                   | 0.31                 | A3   | 5.2                          | 15P48CT   | M27/314-17    |
|                   | 0.42                 | A4   | 4.4                          | 20P48CT   | M27/315-17    |
|                   | 0.63                 | A5   | 2.4                          | 30P48CT   | M27/316-17    |
|                   | 0.83                 | A6   | 2.35                         | 40P48CT   | M27/317-17    |
|                   | 1.63                 | A7   | 1.0                          | 80P48CT   | M27/318-17    |
|                   | 2.50                 | A8   | 0.66                         | 120P48CT  | M27/319-16    |
|                   | 3.33                 | A9   | 0.405                        | 160P48CT  | M27/320-15    |
|                   | 4.17                 | A10  | 0.29                         | 200P48CT  | M27/321-14    |
|                   | 6.26                 | A11  | 0.165                        | 300P48CT  | M27/322-11    |
| 55                | 0.09                 | A1   | 34.4                         | 5P55CT    | M27/312-18    |
|                   | 0.18                 | A2   | 11.0                         | 10P55CT   | M27/313-18    |
|                   | 0.27                 | A3   | 7.5                          | 15P55CT   | M27/314-18    |
|                   | 0.36                 | A4   | 6.0                          | 20P55CT   | M27/315-18    |
|                   | 0.55                 | A5   | 3.5                          | 30P55CT   | M27/316-18    |
|                   | 0.73                 | A6   | 3.2                          | 40P55CT   | M27/317-18    |
|                   | 1.46                 | A7   | 1.5                          | 80P55CT   | M27/318-18    |
|                   | 2.18                 | A8   | 0.82                         | 120P55CT  | M27/319-17    |
|                   | 2.91                 | A9   | 0.6                          | 160P55CT  | M27/320-16    |
|                   | 3.64                 | A10  | 0.41                         | 200P55CT  | M27/321-15    |
|                   | 5.46                 | A11  | 0.175                        | 300P55CT  | M27/322-12    |
| 63                | 0.08                 | A1   | 52.0                         | 5P63CT    | M27/312-19    |
|                   | 0.16                 | A2   | 16.4                         | 10P63CT   | M27/313-19    |
|                   | 0.24                 | A3   | 8.6                          | 15P63CT   | M27/314-19    |
|                   | 0.32                 | A4   | 8.6                          | 20P63CT   | M27/315-19    |
|                   | 0.48                 | A5   | 3.9                          | 30P63CT   | M27/316-19    |
|                   | 0.64                 | A6   | 3.7                          | 40P63CT   | M27/317-19    |
|                   | 1.27                 | A7   | 1.7                          | 80P63CT   | M27/318-19    |
|                   | 1.91                 | A8   | 1.11                         | 120P63CT  | M27/319-18    |
|                   | 2.25                 | A9   | 0.64                         | 160P63CT  | M27/320-17    |
|                   | 3.18                 | A10  | 0.47                         | 200P63CT  | M27/321-16    |
|                   | 4.76                 | A11  | 0.187                        | 300P63CT  | M27/322-13    |
| 70                | 0.071                | A1   | 63.0                         | 5P70CT    | M27/312-20    |
|                   | 0.143                | A2   | 19.0                         | 10P70CT   | M27/313-20    |
|                   | 0.212                | A3   | 11.2                         | 15P70CT   | M27/314-20    |
|                   | 0.286                | A4   | 9.8                          | 20P70CT   | M27/315-20    |
|                   | 0.429                | A5   | 5.5                          | 30P70CT   | M27/316-20    |
|                   | 0.572                | A6   | 5.2                          | 40P70CT   | M27/317-20    |
|                   | 1.140                | A7   | 2.4                          | 80P70CT   | M27/318-20    |
|                   | 1.720                | A8   | 1.20                         | 120P70CT  | M27/319-19    |
|                   | 2.280                | A9   | 0.93                         | 160P70CT  | M27/320-18    |
|                   | 2.860                | A10  | 0.67                         | 200P70CT  | M27/321-17    |
|                   | 4.290                | A11  | 0.26                         | 300P70CT  | M27/322-14    |
| 80                | 0.067                | A1   | 80.0                         | 5P80CT    | M27/312-21    |
|                   | 0.125                | A2   | 25.0                         | 10P80CT   | M27/313-21    |
|                   | 0.187                | A3   | 13.6                         | 15P80CT   | M27/314-21    |
|                   | 0.250                | A4   | 13.4                         | 20P80CT   | M27/315-21    |
|                   | 0.375                | A5   | 6.4                          | 30P80CT   | M27/316-21    |
|                   | 0.500                | A6   | 6.4                          | 40P80CT   | M27/317-21    |
|                   | 1.000                | A7   | 2.7                          | 80P80CT   | M27/318-21    |
|                   | 1.500                | A8   | 1.43                         | 120P80CT  | M27/319-20    |
|                   | 2.000                | A9   | 1.06                         | 160P80CT  | M27/320-19    |
|                   | 2.500                | A10  | 0.74                         | 200P80CT  | M27/321-18    |
|                   | 3.750                | A11  | 0.3                          | 300P80CT  | M27/322-15    |
| 90                | 0.055                | A1   | 112.00                       | 5P90CT    | M27/312-22    |
|                   | 0.111                | A2   | 30.4                         | 10P90CT   | M27/313-22    |
|                   | 0.167                | A3   | 20.0                         | 15P90CT   | M27/314-22    |
|                   | 0.222                | A4   | 14.8                         | 20P90CT   | M27/315-22    |
|                   | 0.332                | A5   | 8.6                          | 30P90CT   | M27/316-22    |
|                   | 0.445                | A6   | 8.4                          | 40P90CT   | M27/317-22    |
|                   | 0.890                | A7   | 3.8                          | 80P90CT   | M27/318-22    |
|                   | 1.340                | A8   | 1.96                         | 120P90CT  | M27/319-21    |
|                   | 1.790                | A9   | 1.49                         | 160P90CT  | M27/320-20    |
|                   | 2.220                | A10  | 1.05                         | 200P90CT  | M27/321-19    |
|                   | 3.320                | A11  | 0.43                         | 300P90CT  | M27/322-16    |

| Output Volts (FL) | Output Current (Amp) | Size | Secondary DCR Ohms (Typical) | Model No. | QPL Model No. |
|-------------------|----------------------|------|------------------------------|-----------|---------------|
| 100               | 0.050                | A1   | 113.0                        | 5P100CT   | M27/312-23    |
|                   | 0.100                | A2   | 40.5                         | 10P100CT  | M27/313-23    |
|                   | 0.150                | A3   | 22.0                         | 15P100CT  | M27/314-23    |
|                   | 0.200                | A4   | 15.5                         | 20P100CT  | M27/315-23    |
|                   | 0.300                | A5   | 10.0                         | 30P100CT  | M27/316-23    |
|                   | 0.400                | A6   | 9.4                          | 40P100CT  | M27/317-23    |
|                   | 0.800                | A7   | 4.2                          | 80P100CT  | M27/318-23    |
|                   | 1.200                | A8   | 2.75                         | 120P100CT | M27/319-22    |
|                   | 1.600                | A9   | 1.69                         | 160P100CT | M27/320-21    |
|                   | 2.000                | A10  | 1.17                         | 200P100CT | M27/321-20    |
|                   | 3.000                | A11  | 0.48                         | 300P100CT | M27/322-17    |
| 110               | 0.045                | A1   | 140.0                        | 5P110CT   | M27/312-24    |
|                   | 0.091                | A2   | 44.5                         | 10P110CT  | M27/313-24    |
|                   | 0.136                | A3   | 28.0                         | 15P110CT  | M27/314-24    |
|                   | 0.182                | A4   | 23.0                         | 20P110CT  | M27/315-24    |
|                   | 0.272                | A5   | 13.6                         | 30P110CT  | M27/316-24    |
|                   | 0.364                | A6   | 12.5                         | 40P110CT  | M27/317-24    |
|                   | 0.726                | A7   | 5.7                          | 80P110CT  | M27/318-24    |
|                   | 1.090                | A8   | 3.05                         | 120P110CT | M27/319-23    |
|                   | 1.450                | A9   | 2.3                          | 160P110CT | M27/320-22    |
|                   | 1.820                | A10  | 1.6                          | 200P110CT | M27/321-21    |
|                   | 2.720                | A11  | 0.65                         | 300P110CT | M27/322-18    |
| 123               | 0.040                | A1   | 198.0                        | 5P123CT   | M27/312-25    |
|                   | 0.081                | A2   | 70.0                         | 10P123CT  | M27/313-25    |
|                   | 0.122                | A3   | 33.5                         | 15P123CT  | M27/314-25    |
|                   | 0.162                | A4   | 35.0                         | 20P123CT  | M27/315-25    |
|                   | 0.244                | A5   | 15.3                         | 30P123CT  | M27/316-25    |
|                   | 0.325                | A6   | 14.6                         | 40P123CT  | M27/317-25    |
|                   | 0.650                | A7   | 6.5                          | 80P123CT  | M27/318-25    |
|                   | 0.970                | A8   | 4.35                         | 120P123CT | M27/319-24    |
|                   | 1.300                | A9   | 2.57                         | 160P123CT | M27/320-23    |
|                   | 1.620                | A10  | 1.8                          | 200P123CT | M27/321-22    |
|                   | 2.440                | A11  | 0.74                         | 300P123CT | M27/322-19    |
| 138               | 0.036                | A1   | 227.0                        | 5P138CT   | M27/312-26    |
|                   | 0.073                | A2   | 80.0                         | 10P138CT  | M27/313-26    |
|                   | 0.108                | A3   | 46.0                         | 15P138CT  | M27/314-26    |
|                   | 0.145                | A4   | 37.5                         | 20P138CT  | M27/315-26    |
|                   | 0.217                | A5   | 21.0                         | 30P138CT  | M27/316-26    |
|                   | 0.289                | A6   | 20.5                         | 40P138CT  | M27/317-26    |
|                   | 0.580                | A7   | 9.5                          | 80P138CT  | M27/318-26    |
|                   | 0.870                | A8   | 4.85                         | 120P138CT | M27/319-25    |
|                   | 1.150                | A9   | 3.6                          | 160P138CT | M27/320-24    |
|                   | 1.450                | A10  | 2.5                          | 200P138CT | M27/321-23    |
|                   | 2.170                | A11  | 1.02                         | 300P138CT | M27/322-20    |
| 157               | 0.064                | A2   | 100.0                        | 10P157CT  | M27/313-27    |
|                   | 0.096                | A3   | 53.0                         | 15P157CT  | M27/314-27    |
|                   | 0.127                | A4   | 48.2                         | 20P157CT  | M27/315-27    |
|                   | 0.191                | A5   | 24.5                         | 30P157CT  | M27/316-27    |
|                   | 0.254                | A6   | 23.6                         | 40P157CT  | M27/317-27    |
|                   | 0.510                | A7   | 10.5                         | 80P157CT  | M27/318-27    |
|                   | 0.760                | A8   | 5.45                         | 120P157CT | M27/319-26    |
|                   | 1.020                | A9   | 4.1                          | 160P157CT | M27/320-25    |
|                   | 1.270                | A10  | 2.86                         | 200P157CT | M27/321-24    |
|                   | 1.910                | A11  | 1.16                         | 300P157CT | M27/322-21    |
| 175               | 0.057                | A2   | 111.0                        | 10P175CT  | M27/313-28    |
|                   | 0.086                | A3   | 70.0                         | 15P175CT  | M27/314-28    |
|                   | 0.114                | A4   | 55.0                         | 20P175CT  | M27/315-28    |
|                   | 0.171                | A5   | 35.0                         | 30P175CT  | M27/316-28    |
|                   | 0.228                | A6   | 33.7                         | 40P175CT  | M27/317-28    |
|                   | 0.457                | A7   | 14.8                         | 80P175CT  | M27/318-28    |
|                   | 0.685                | A8   | 7.6                          | 120P175CT | M27/319-27    |
|                   | 0.914                | A9   | 5.82                         | 160P175CT | M27/320-26    |
|                   | 1.140                | A10  | 4.09                         | 200P175CT | M27/321-25    |
|                   | 1.710                | A11  | 1.63                         | 300P175CT | M27/322-22    |
| 200               | 0.050                | A2   | 160.0                        | 10P200CT  | M27/313-29    |
|                   | 0.075                | A3   | 87.0                         | 15P200CT  | M27/314-29    |
|                   | 0.100                | A4   | 75.0                         | 20P200CT  | M27/315-29    |
|                   | 0.150                | A5   | 40.5                         | 30P200CT  | M27/316-29    |
|                   | 0.200                | A6   | 38.5                         | 40P200CT  | M27/317-29    |
|                   | 0.400                | A7   | 17.0                         | 80P200CT  | M27/318-29    |
|                   | 0.600                | A8   | 8.8                          | 120P200CT | M27/319-28    |
|                   | 0.800                | A9   | 6.7                          | 160P200CT | M27/320-27    |
|                   | 1.000                | A10  | 4.55                         | 200P200CT | M27/321-26    |
|                   | 1.500                | A11  | 1.92                         | 300P200CT | M27/322-23    |

Note: Other Standard outputs up to 1000 volts available

# 60Hz MIL-PRF-27 Power Transformers

## Dimensions

| Size | B     | C     | D     | E     | F     | G     | Model Type | Weight lb. (Max) | Primary DCR Ohms (Typ) |
|------|-------|-------|-------|-------|-------|-------|------------|------------------|------------------------|
| A1   | 1.500 | 1.750 | 2.375 | 1.062 | 1.250 | 6-32  | 5P         | 1.0              | 86.0                   |
| A2   | 1.750 | 2.062 | 2.750 | 1.250 | 1.500 | 6-32  | 10P        | 1.5              | 36.0                   |
| A3   | 1.875 | 2.375 | 3.125 | 1.250 | 1.750 | 8-32  | 15P        | 2.0              | 24.0                   |
| A4   | 2.000 | 2.375 | 3.125 | 1.500 | 1.750 | 8-32  | 20P        | 2.5              | 15.0                   |
| A5   | 2.125 | 2.687 | 3.500 | 1.500 | 2.000 | 8-32  | 30P        | 3.0              | 8.5                    |
| A6   | 2.250 | 2.687 | 3.500 | 1.625 | 2.000 | 8-32  | 40P        | 3.3              | 6.7                    |
| A7*  | 2.625 | 3.125 | 4.125 | 2.000 | 2.250 | 8-32  | 80P        | 5.0              | 3.7                    |
| A8*  | 2.875 | 3.437 | 4.500 | 2.250 | 2.500 | 10-32 | 120P       | 6.5              | 1.9                    |
| A9*  | 3.125 | 3.750 | 4.875 | 2.437 | 2.750 | 10-32 | 160P       | 8.2              | 1.6                    |
| A10* | 3.375 | 4.062 | 5.250 | 2.625 | 3.000 | ¼-20  | 200P       | 10.5             | 1.1                    |
| A11* | 3.875 | 4.687 | 6.000 | 2.750 | 3.500 | ¼-20  | 300P       | 17.0             | 0.5                    |

\*See Fig. 3 for header configuration used on any unit with output current greater than 10 amps.

## Mechanical Drawings

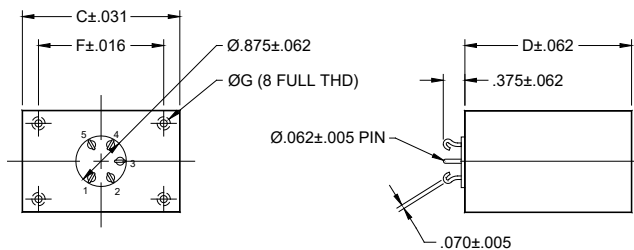


FIG. 1

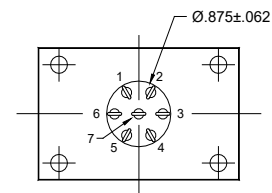


FIG. 2

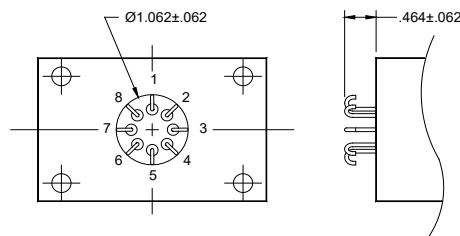
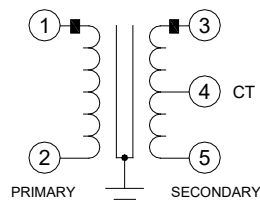


FIG. 3

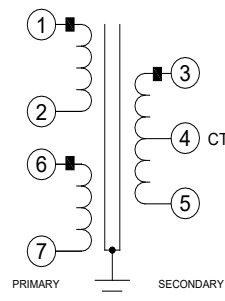
## Circuit Diagram

Standard and "A" Option



"B" Option

for 115V. Connect 1 and 6, 2 and 7.  
for 230V. Connect 2 and 6.



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