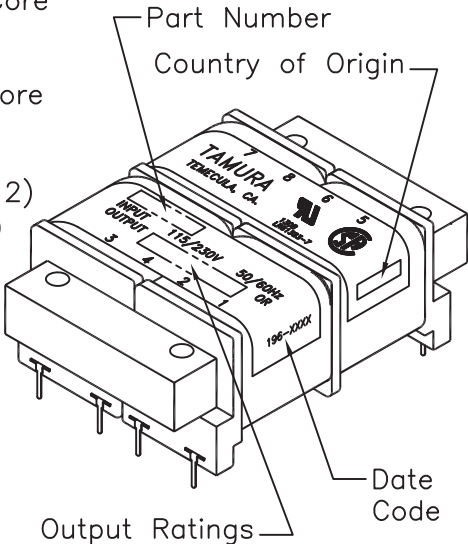


A. Electrical Specifications (@25°C)

- 1. Maximum Power: 12VA
- 2. Primary Voltage and Frequency: 115/230VAC 50/60Hz.
- 3. Secondary RMS Rating: See Table A on sheet 2
- 4. Voltage Regulation: 20% TYP @ full load to no load
- 5. Temperature Rise: 35°C TYP (45°C MAX)
- 6. Insulation Resistance:
 - 100MΩ MIN @ 500VDC, Pri to Sec, Pri to Core
 - 100MΩ MIN @ 500VDC, Sec to core
- 7. Dielectric Withstand:
 - 1500Vrms 1 minute @ Pri to Sec, Pri to Core
 - 1500Vrms 1 minute @ Sec to Core



B. Marking: TAMURA, Tamura part number (see sheet 2)
MICROTRAN, Microtran part number (see sheet 2)
date code, country of origin, safety logos
and input and output ratings (see sheet 2)

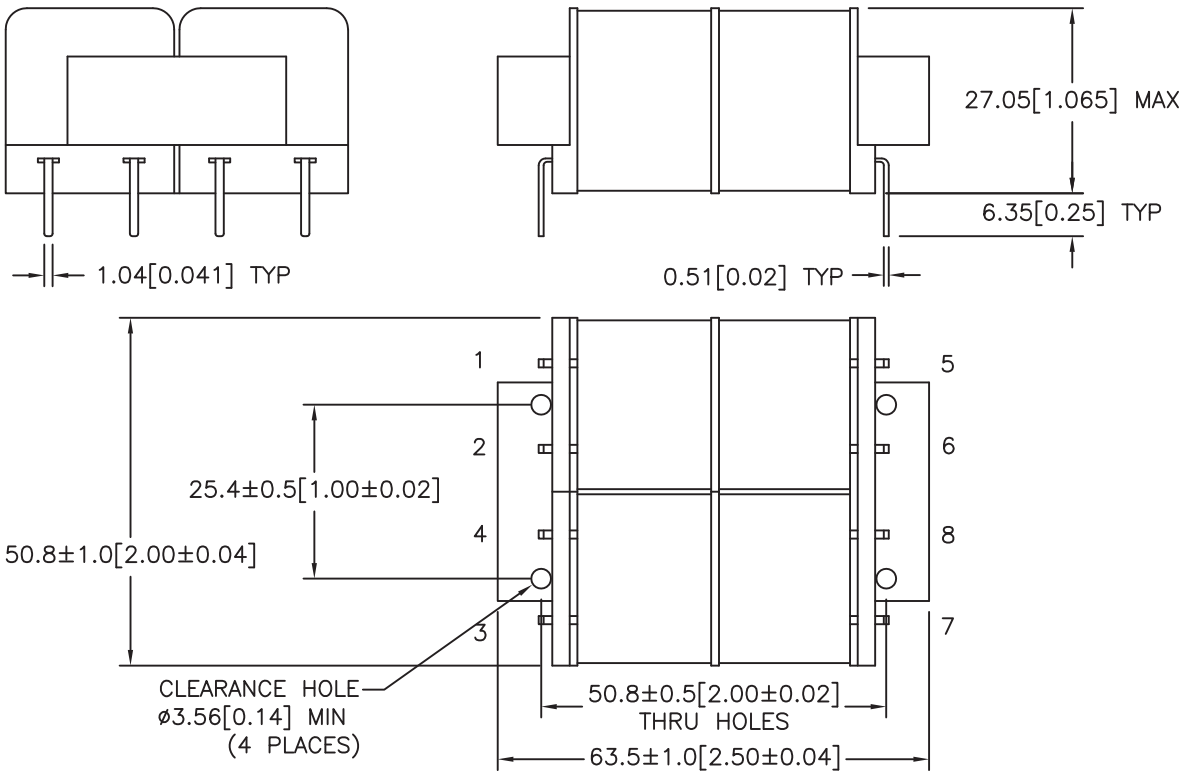


C. Safety:

UL approved, UL506 File E145619, E79781
Insulation Class B (130°C) File No E92957
CSA Certified, C22.2 No. 66 File 081383
(3FL Series)



D. Mechanical Specifications:

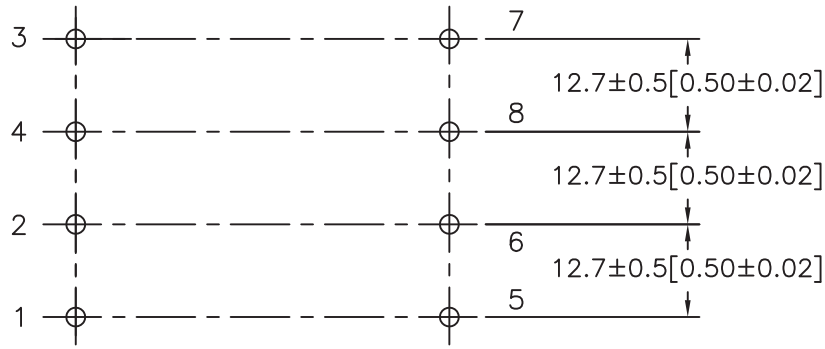


| TOLERANCES (mm) | |
|-----------------|-------|
| ≤ 4 | ± 0.2 |
| 4 ≤ 20 | ± 0.3 |
| 20 ≤ 50 | ± 0.4 |

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B. OCONNELL
APPROVED:
Y. SEKIGUCHI

| DRAWING CONTROL NO. | REV | MODEL DESCRIPTION | MODEL SPECIFICATION | | |
|---|-----|--|--|-----------|------------|
| P-A1-11688 | - | 12VA 3FL & PF SERIES POWER TRANSFORMER | 3FL & PF 12VA | | |
| CONTENTS OF THIS DRAWING ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE | | TAMURA CORPORATION OF AMERICA 1040 SOUTH ANDREASEN DRIVE, #100 ESCONDIDO, CA. 92029 (951) 699-1270 FAX 7607400536 | DIM: mm[In] | SCL: NONE | SH: 1 OF 2 |
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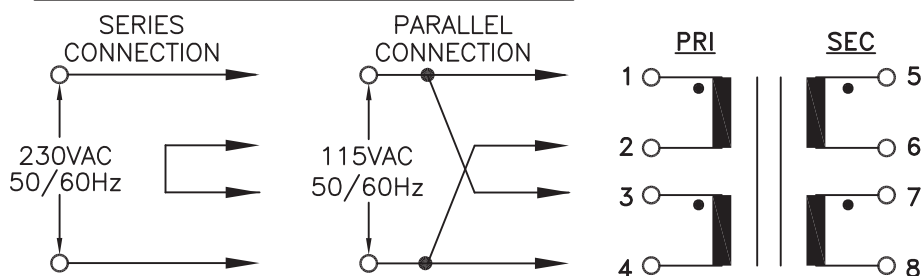
E. Mounting Footprint:



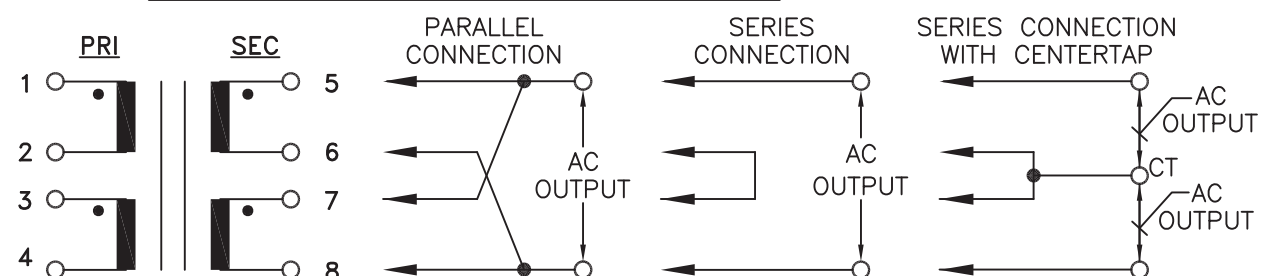
MODEL NUMBER
3FL & PF 12VA

F. Schematic Diagram:

PRIMARY INPUT CONNECTIONS



SECONDARY OUTPUT CONNECTIONS



G. Table A:

| TAMURA PART NO. | MICROTRAN PART NO. | PARALLEL CONNECTION | | SERIES CONNECTION | | SERIES CONNECTION WITH CT | |
|--------------------|-----------------------|---------------------|----------|-------------------|----------|---------------------------|----------|
| | | AC VOLTS | RMS AMPS | AC VOLTS | RMS AMPS | AC VOLTS | RMS AMPS |
| 3FL10-1200 | PF12-10 | 5.0 | 2.40 | 10.0 | 1.20 | 5.0-CT-5.0 | 1.20 |
| 3FL12-950 | PF12-12 | 6.3 | 1.90 | 12.6 | 0.95 | 6.3-CT-6.3 | 0.95 |
| 3FL16-700 | PF12-16 | 8.0 | 1.40 | 16.0 | 0.70 | 8.0-CT-8.0 | 0.70 |
| 3FL20-600 | PF12-20 | 10.0 | 1.20 | 20.0 | 0.60 | 10.0-CT-10.0 | 0.60 |
| 3FL24-500 | PF12-24 | 12.0 | 1.00 | 24.0 | 0.50 | 12.0-CT-12.0 | 0.50 |
| 3FL30-400 | PF12-30 | 15.0 | 0.80 | 30.0 | 0.40 | 15.0-CT-15.0 | 0.40 |
| 3FL34-340 | PF12-34 | 17.0 | 0.68 | 34.0 | 0.34 | 17.0-CT-17.0 | 0.34 |
| 3FL40-300 | N/A | 20.0 | 0.60 | 40.0 | 0.30 | 20.0-CT-20.0 | 0.30 |
| 3FL56-200 | PF12-56 | 28.0 | 0.42 | 56.0 | 0.21 | 28.0-CT-28.0 | 0.21 |
| 3FL88-130 | N/A | 44.0 | 0.26 | 88.0 | 0.13 | 44.0-CT-44.0 | 0.13 |
| 3FL120-100 | N/A | 60.0 | 0.20 | 120.0 | 0.10 | 60.0-CT-60.0 | 0.10 |
| 3FL230-50 | N/A | 115.0 | 0.10 | 230.0 | 0.05 | 115.0-CT-115.0 | 0.05 |

DRAWING CONTROL NO.
P-A1-11688

REV
—

MODEL DESCRIPTION
12VA 3FL & PF SERIES
POWER TRANSFORMER

MODEL SPECIFICATION
3FL & PF 12VA

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(951) 699-1270 FAX 7607400536

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Mouser Electronics

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[3FL10-1200](#)