

## REV. Status

REVISION -  
07/23/96 TS

REVISION A  
REFORMATTED  
08/14/96 TS

REVISION B  
REFORMATTED  
07/15/97 TS

REVISION C  
CHANGED A.7.  
08/20/99 TS

REVISION D  
ADDED RoHS  
01/12/06 MP

## A. Electrical Specifications (@ 25°C)

1. Maximum Power: 12.0 VA
2. Input Voltage and Frequency: 115V 50/60 Hz
3. Secondary Voltage: See Table A
4. Voltage Regulation: 19% TYP @ full load to no load
5. Temperature Rise: 45°C TYP (50°C MAX allowed)
6. Insulation Resistance:  
100 MΩ MIN @ 500VDC, Pri to Sec, Pri to Core  
100 MΩ MIN @ 500VDC, Sec to Core
7. Hi-Pot: 2500 Vrms 1 minute @ Pri to Sec  
1500 Vrms 1 minute @ Pri to Core  
1500 Vrms 1 minute @ Sec to Core  
500 Vrms 1 minute @ Sec to Sec

## 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

## C. Safety:

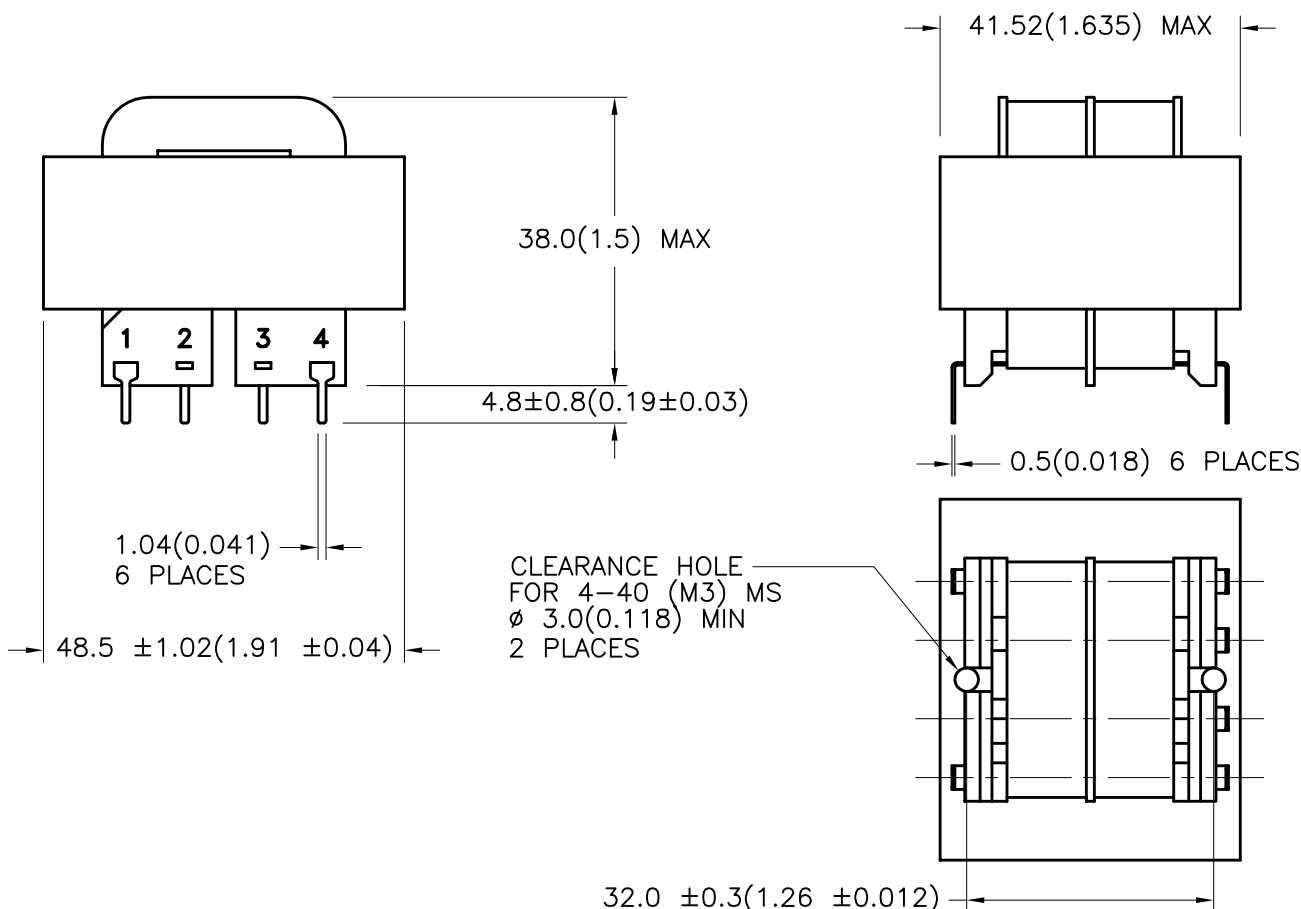
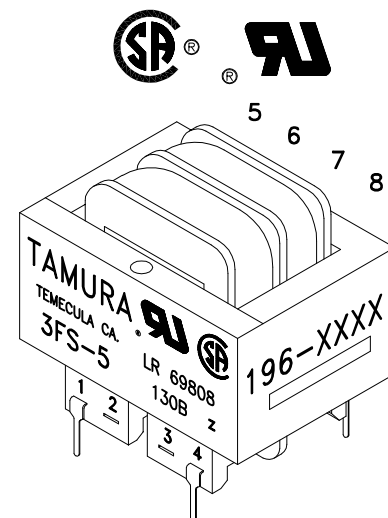
Insulation Class B (130°C) File No. E92957  
CSA 22.2 Nos. 0 and 66, File No. LR69808  
UL 1585, Class II and III, File No. E95844  
UL 506, General Purpose, File No. E91239

## D. Mechanical Specifications:



MODEL NUMBER

3FS-5XX & PSS5-XX



PREPARED BY:

K. BRENNAN

ENGINEER:

M. PITCHAI

QUALITY CONTROL:

T. CLEM

APPROVED:

Y. SEKIGUCHI

DWG CONTROL NO.  
P-A1-11648  
ACAD\3F\A1116481.DWG

REV  
D

SIZE 5 3FS & PSS FAMILY  
POWER TRANSFORMER

CONTENTS OF THIS DRAWING ARE  
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**TAMURA CORPORATION OF AMERICA**  
43352 BUSINESS PARK DRIVE, TEMECULA, CA. 92590-6624  
(951) 699-1270 FAX 9516769482

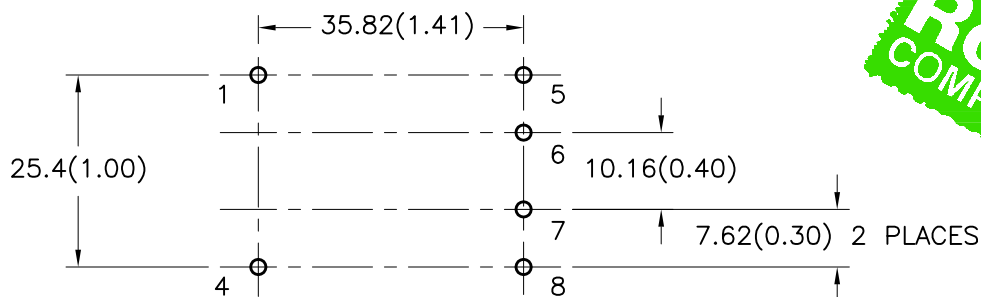
**3FS-5XX & PSS5-XX**

MODEL SPECIFICATION

DIM: mm(In) SCL: 1/1 SH: 1 OF 2

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E. Mounting Footprint:

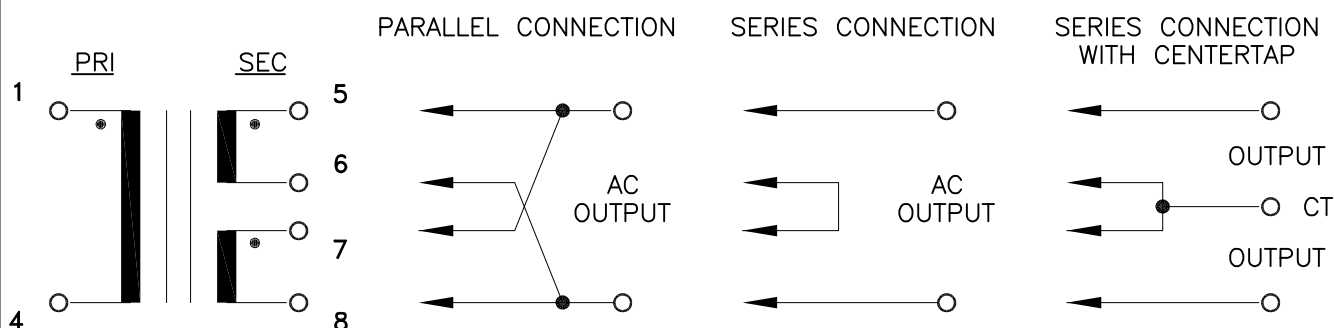


**RoHS**  
COMPLIANT

MODEL NUMBER

3FS-5XX & PSS5-XX

F. Schematic Diagram:



G. Table A: (NOTE: All parts are dual marked with both part numbers)

| TAMURA<br>PART NO. | MICROTRAN<br>PART NO. | PARALLEL CONNECTION |          | SERIES CONNECTION |          | SERIES CONNECTION WITH CT |          |
|--------------------|-----------------------|---------------------|----------|-------------------|----------|---------------------------|----------|
|                    |                       | AC VOLTS            | RMS AMPS | AC VOLTS          | RMS AMPS | AC VOLTS                  | RMS AMPS |
| 3FS-510            | PSS5-10               | 5.0                 | 2.4      | 10.0              | 1.2      | 5.0-CT-5.0                | 1.2      |
| 3FS-512            | PSS5-12               | 6.3                 | 2.0      | 12.6              | 1.0      | 6.3-CT-6.3                | 1.0      |
| 3FS-516            | PSS5-16               | 8.0                 | 1.6      | 16.0              | 0.8      | 8.0-CT-8.0                | 0.8      |
| 3FS-520            | PSS5-20               | 10.0                | 1.2      | 20.0              | 0.6      | 10.0-CT-10.0              | 0.6      |
| 3FS-524            | PSS5-24               | 12.0                | 1.0      | 24.0              | 0.5      | 12.0-CT-12.0              | 0.5      |
| 3FS-528            | PSS5-28               | 14.0                | 0.84     | 28.0              | 0.42     | 14.0-CT-14.0              | 0.42     |
| 3FS-536            | PSS5-36               | 18.0                | 0.7      | 36.0              | 0.35     | 18.0-CT-18.0              | 0.35     |
| 3FS-548            | PSS5-48               | 24.0                | 0.5      | 48.0              | 0.25     | 24.0-CT-24.0              | 0.25     |
| 3FS-556            | PSS5-56               | 28.0                | 0.44     | 56.0              | 0.22     | 28.0-CT-28.0              | 0.22     |
| 3FS-5120           | PSS5-120              | 60.0                | 0.2      | 120.0             | 0.1      | 60.0-CT-60.0              | 0.1      |

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**3FS-5XX & PSS5-XX**

MODEL SPECIFICATION

DIM: mm(In) SCL: 1/1 SH: 2 OF 2

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