

## REV. Status

REVISION -  
02/04/03 YSREVISION A  
ADDED RoHS &  
UPDATED LABELS  
DELETED CSA#  
LR69223  
02/27/06 MPREVISION B  
CHG TUV FILE #  
WAS 810/89  
(EN60950 & VDE  
0551). CLARIFIED  
PIN OUTS  
04/19/07 YSREVISION C  
UPDATE LOGO'S  
TO STD IED.  
Dielectric  
Withstand WAS  
Hi-Pot 3500.  
4-30-08 EBREVISION D  
MOUNTING  
NOTE ADDED  
09/28/11 MPREVISION E  
UPDATE SAFETY  
09/29/11 MPREVISION F  
SAFETY NOTES  
ADDED  
03/20/13 MP

## TOLERANCES (mm)

 $\leq 4 \pm 0.2$   
 $4 \leq 20 \pm 0.3$   
 $20 \leq 50 \pm 0.4$ 

PREPARED BY:

M. PITCHAI

ENGINEER:

M. PITCHAI

SAFETY ENGINEER

B. OCONNELL

APPROVED:

P. BRUNE

## THREE FLANGE DUAL PRIMARY 20VA PC BOARD POWER TRANSFORMER

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

1. Maximum Power: 20VA
2. Primary Voltage and Frequency: 115/230VAC 50/60Hz
3. Secondary RMS Rating: See Table A
4. Voltage Regulation: 18% TYP @ full load to no load
5. Temperature Rise(normal op. condition): 45°C TYP (60° MAX)
6. A 10% Input Voltage change will proportionally affect transformer sec voltage. The max. allowed wdg temp under abnormal condition is 155°C
7. Insulation Resistance:  
100MΩ MIN @ 500VDC, Pri to Sec, Pri to Core, Sec to Core
8. Dielectric Withstand: 3750Vrms 1 minute @ Pri to Sec  
1500Vrms 1 minute @ Pri to Core, Sec to Core

## B. Marking: includes input and output ratings (per sheet 2),

## C. Safety:

Conforms to construction requirement of:

UL5085-1, -2; CSA No. 66.1, 66.2

(from Datecode 1143 and onwards).

UL506, UL1411

UL1446 (CLASS 130(B))

EN61558-1, -2-6

Safety certificate file reference:

UL E138028, E79781, E92957

CSA 175561

TUV (P.S.) 4478013415698

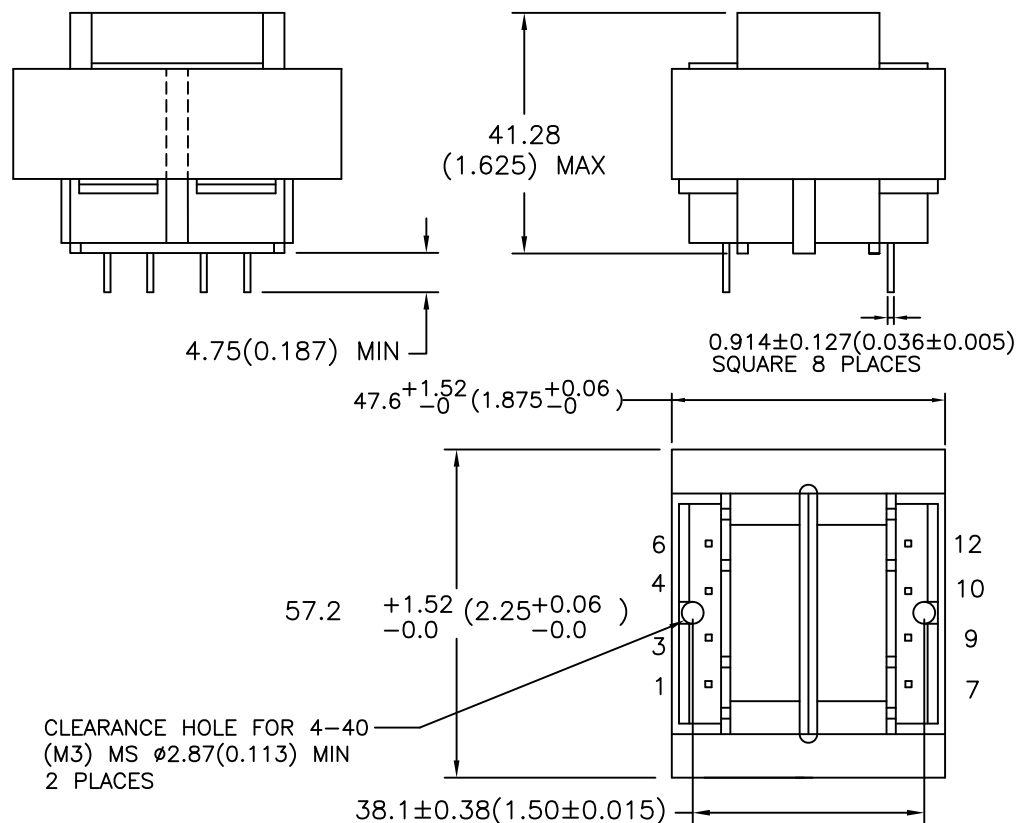
Non short-circuit proof safety isolating transformer.

Intended for mounting on PCBs and for building into end use-equipment.

Not intended for series/parallel connection with other transformers.

Mounting hardware may reduce spacing in end use application.

## D. Mechanical Specifications:



NOTE: BOARD WASHING IS NOT RECOMMENDED FOR THESE PARTS

DRAWING CONTROL NO.  
P-A1-12260  
ACAD/MXFMR/A1122601.DWGREV  
FMODEL DESCRIPTION  
POWER  
TRANSFORMER

MODEL SPECIFICATION

PL20-XX-130B

CONTENTS OF THIS DRAWING ARE  
SUBJECT TO CHANGE WITHOUT  
PRIOR NOTICETAMURA CORPORATION OF AMERICA  
1040 SOUTH ANDREASEN DRIVE, #100 ESCONDIDO, CA. 92029  
(951) 699-1270 FAX 7607400536

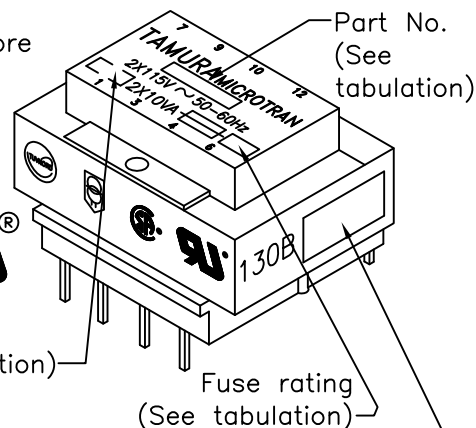
DIM: mm[In] SCL: 1/1 SH: 1 OF 2

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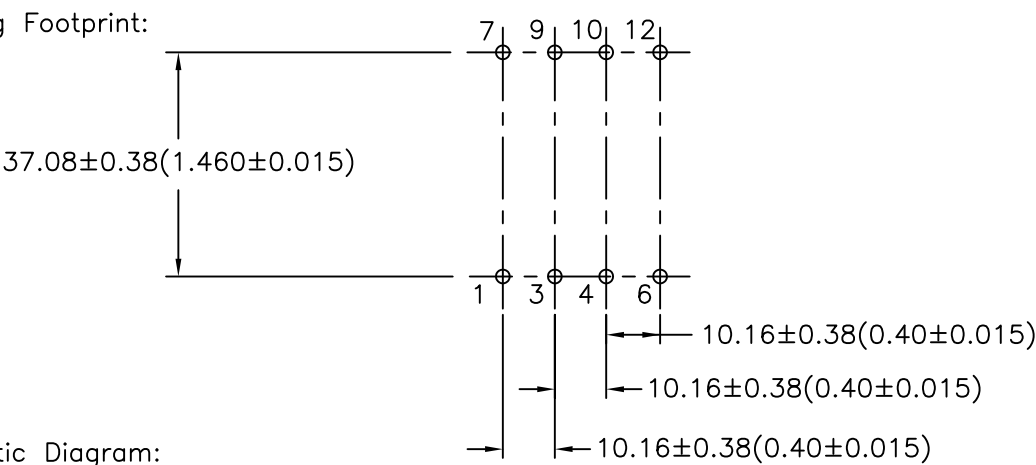
RoHS  
COMPLIANT

MODEL NUMBER

PL20-XX-130B

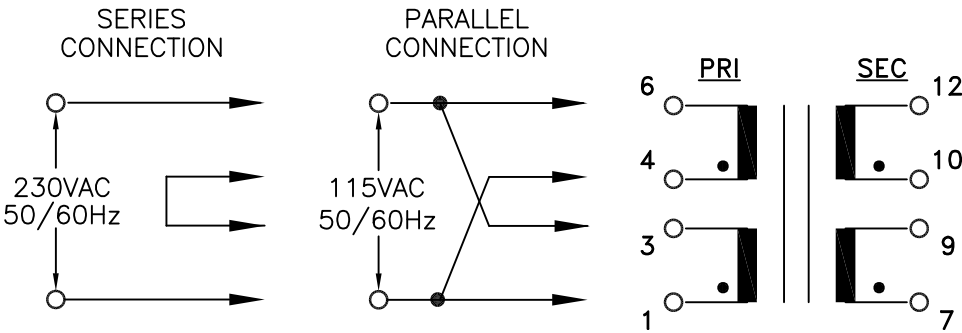


E. Mounting Footprint:

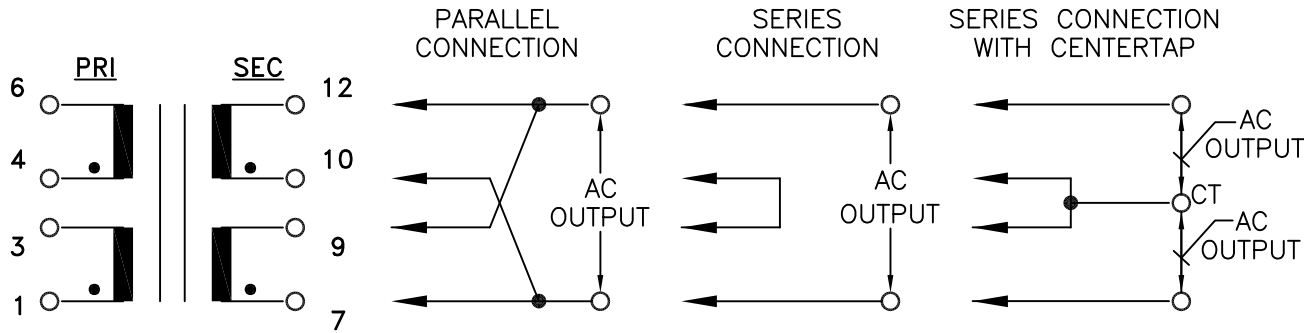


F. Schematic Diagram:

PRIMARY INPUT CONNECTIONS



SECONDARY OUTPUT CONNECTIONS



G. Table A:

T= Time lag

| PART NO.     | PARALLEL |          | SERIES   |          | SERIES WITH CT |          | OUTPUT  | SECONDARY FUSE REQ'D EA. WINDING |
|--------------|----------|----------|----------|----------|----------------|----------|---------|----------------------------------|
|              | AC VOLTS | RMS AMPS | AC VOLTS | RMS AMPS | AC VOLTS       | RMS AMPS |         |                                  |
| PL20-10-130B | 5.0      | 4.00     | 10.0     | 2.00     | 5.0-CT-5.0     | 2.00     | 2X5.0V  | T 2.00A                          |
| PL20-12-130B | 6.3      | 3.20     | 12.6     | 1.60     | 6.3-CT-6.3     | 1.60     | 2X6.3V  | T 1.60A                          |
| PL20-16-130B | 8.0      | 2.50     | 16.0     | 1.25     | 8.0-CT-8.0     | 1.25     | 2X8.0V  | T 1.25A                          |
| PL20-20-130B | 10.0     | 2.00     | 20.0     | 1.00     | 10.0-CT-10.0   | 1.00     | 2X10.0V | T 1.00A                          |
| PL20-24-130B | 12.0     | 1.66     | 24.0     | 0.83     | 12.0-CT-12.0   | 0.83     | 2X12.0V | T 1.00A                          |
| PL20-28-130B | 14.0     | 1.44     | 28.0     | 0.72     | 14.0-CT-14.0   | 0.72     | 2X14.0V | T 0.80A                          |
| PL20-36-130B | 18.0     | 1.12     | 36.0     | 0.56     | 18.0-CT-18.0   | 0.56     | 2X18.0V | T 0.63A                          |

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DRAWING CONTROL NO.  
P-A1-12260  
ACAD/MXFMR/A1122602.DWG

REV  
F

MODEL DESCRIPTION  
POWER  
TRANSFORMER  
**TAMURA CORPORATION OF AMERICA**  
1040 SOUTH ANDREASEN DRIVE, #100 ESCONDIDO, CA. 92029  
(951) 699-1270 FAX 7607400536

MODEL SPECIFICATION  
**PL20-XX-130B**

DIM: mm[In] SCL: NONE SH: 2 OF 2

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