

REV. Status
REVISION -
05/07/07 YS

LOW PROFILE, THREE FLANGE 12VA POWER TRANSFORMER APPROVED TO UL506 AND CSA C22.2 NO. 66-1988 AND USES A UL CLASS B (130°C) APPROVED INSULATION SYSTEM

MODEL NUMBER

3FL & PF 12VA

A. Electrical Specifications (@25°C)

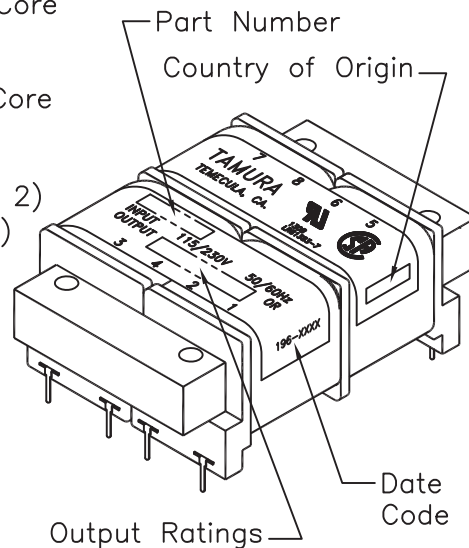
1. Maximum Power: 12VA
2. Primary Voltage and Frequency: 115/230VAC
50/60Hz.
3. Secondary RMS Rating: See Table A on sheet 2
4. Voltage Regulation: 20% TYP @ full load to no load
5. Temperature Rise: 35°C TYP (45°C MAX)
6. Insulation Resistance:
100MΩ MIN @ 500VDC, Pri to Sec, Pri to Core
100MΩ MIN @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



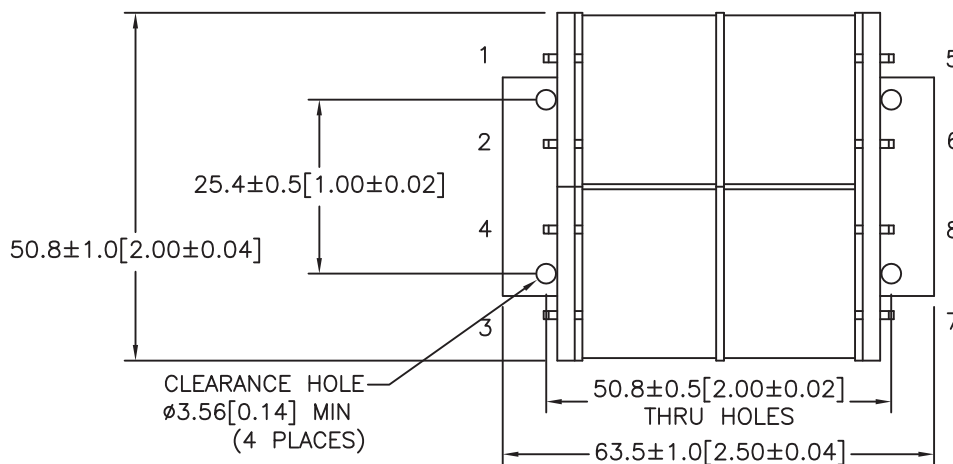
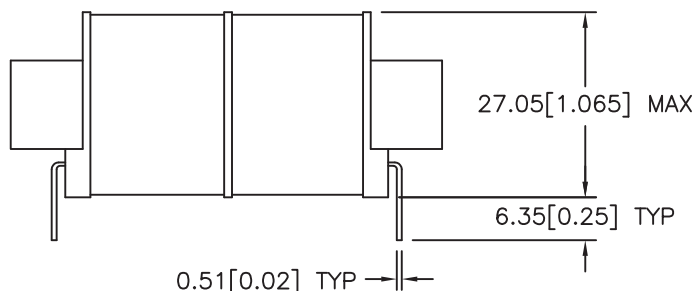
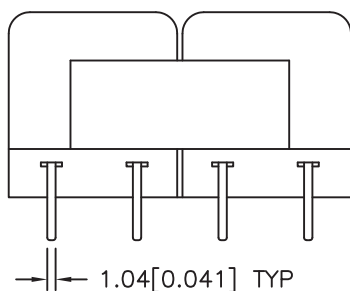
- B. Marking: TAMURA, Tamura part number (see sheet 2)
MICROTRAN, Microtran part number (see sheet 2)
date code, country of origin, safety logos
and input and output ratings (see sheet 2)

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

PREPARED BY:

K. BRENNAN

ENGINEER:

M. PITCHAI

SAFETY ENGINEER

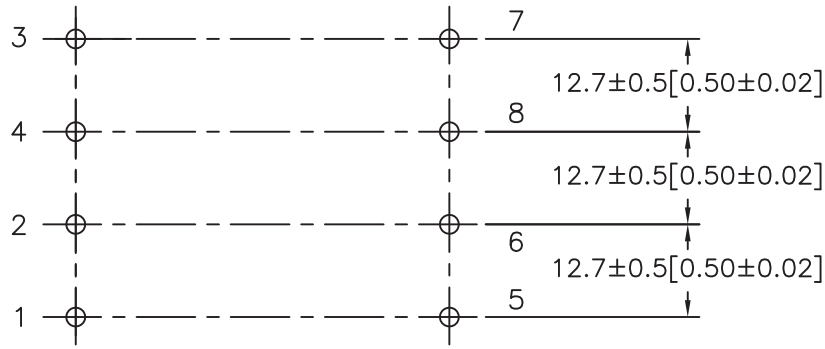
B. OCONNELL

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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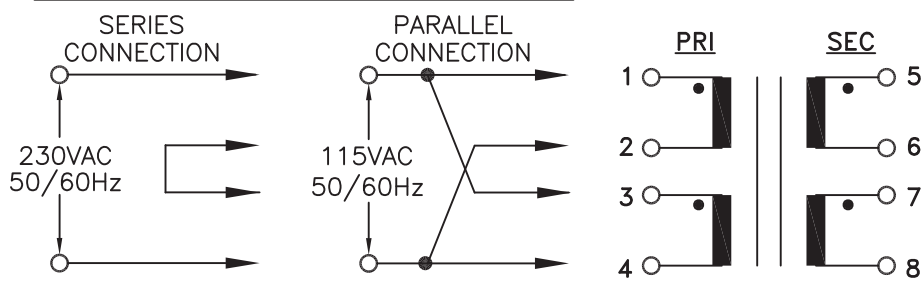
E. Mounting Footprint:



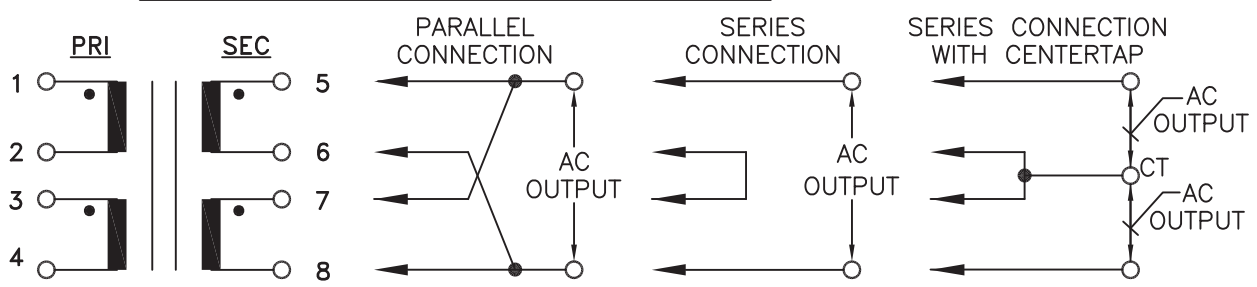
MODEL NUMBER
3FL & PF 12VA

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

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POWER TRANSFORMER

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