

The SPHE-400 series is a High Efficiency - International Capable Standard PC Mount Power transformers. Rated 2.4 VA and 87% efficient it meets Energy Star < 0.3W specification for Low Input Power Consumption. With dual 115/230V primaries and dual secondaries these transformers provide the high isolation, creepage and clearance necessary to comply with international safety standards.

- Dielectric Strength - 4500Vrms Hipot primary - secondary
- Dual Primaries (must be used either Series or Parallel connected as one winding) 115/230V, 50/60Hz
- Dual secondaries - Series or Parallel
- 87% Efficiency
- Immersed in 100% solids epoxy resin to withstand most aqueous and solvent cleaning systems
- 100% Final Tested - Every transformer is tested on automated panels for induced voltage (shorted turns), exciting current, open circuit voltage (turns ratio), polarity (phasing) and dielectric strength
- Low Input Power Consumption, meets Energy Star <0.3W specification
- Shrouded primaries, Three flange bobbin design, no electrostatic shield required
- Flammability - Bobbin and Shroud Material meets UL 94-VO
- Insulation system - Class B (130°C), UL 1446 (File E85315)

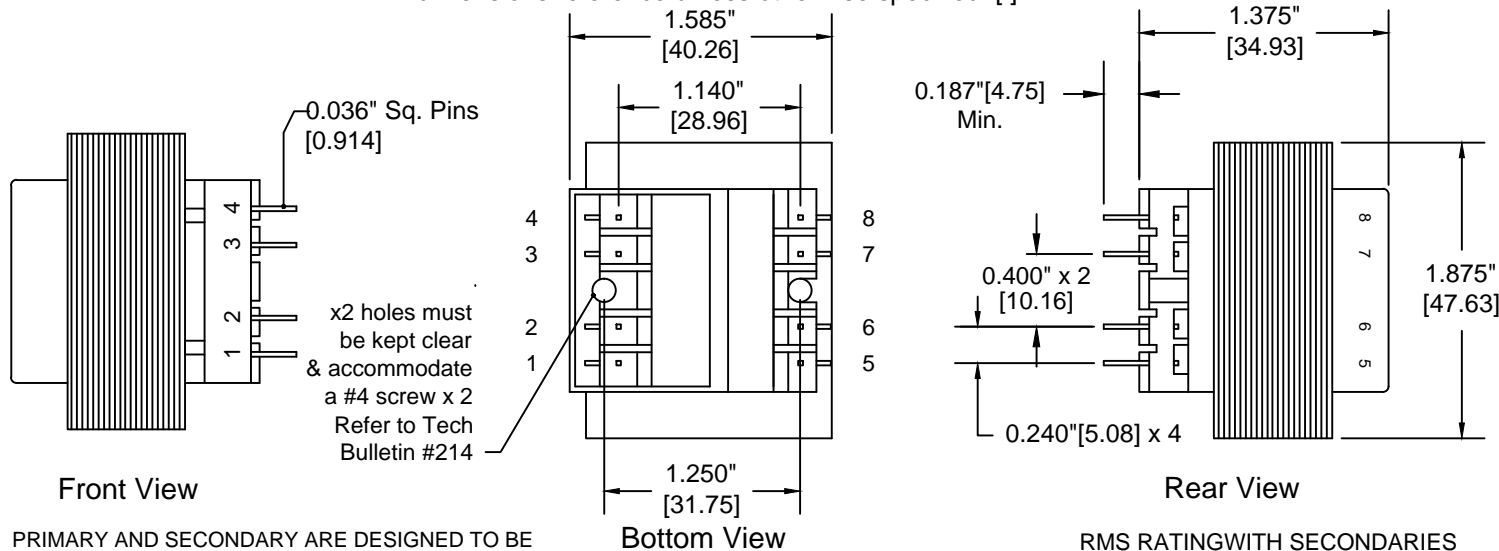
## SPHE-400 Series

### Notes

Designed to meet:  
UL 60950  
VDE 0805 (EN 60950)

Fusing the transformer to meet safety agency requirements is the responsibility of the customer.

All dimensions reference unless otherwise specified. [ ]=mm

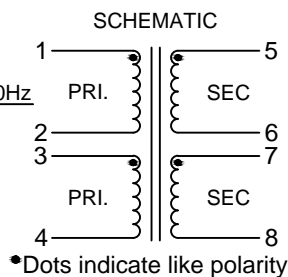


PRIMARY AND SECONDARY ARE DESIGNED TO BE USED AS ONE PRIMARY AND ONE SECONDARY WINDING WITH EITHER SERIES OR PARALLEL CONNECTION ONLY.

INPUT VOLTAGE 1 - 4 (TIE 2-3), 230V, 50/60Hz  
INPUT VOLTAGE 1 - 4 (TIE 1-3, 2-4), 115V, 50/60Hz

SECONDARY PARALLEL CONNECTIONS:  
TIE 5-7, 6-8; OUTPUT 5-8

SECONDARY SERIES CONNECTIONS:  
TIE 6-7; OUTPUT 5-8



THE DESIGN OF THIS PART IS INTENDED TO MEET THE ADJACENT LISTED SAFETY AGENCY REQUIREMENTS, PREM HAS NOT HAD THIS PART REVIEWED, APPROVED OR LISTED BY ANY SAFETY AGENCY.

### RMS RATING WITH SECONDARIES CONNECTED IN:

Part Number	VA	Series	Parallel
SPHE-400	2.4	10Vct @ 250mA	5V @ 500mA
SPHE-401	2.4	12.6Vct @ 200mA	6.3V @ 400mA
SPHE-402	2.4	16Vct @ 150mA	8V @ 300mA
SPHE-403	2.4	20Vct @ 120mA	10V @ 240mA
SPHE-404	2.4	24Vct @ 100mA	12V @ 200mA
SPHE-405	2.4	28Vct @ 85mA	14V @ 170mA
SPHE-406	2.4	36Vct @ 65mA	18V @ 130mA
SPHE-407	2.4	48Vct @ 50mA	24V @ 100mA
SPHE-408	2.4	56Vct @ 45mA	28V @ 90mA
SPHE-409	2.4	120Vct @ 20mA	60V @ 40mA

- PRI TO SEC INSULATION: REINFORCED
- PRI TO SEC CREEPAGE: 8mm MIN. (POLLUTION DEGREE 2, MATERIAL GROUP IIIb)
- PRI TO SEC CLEARANCE: 8mm MIN.

-3	Remove labels, epoxy, & correct electrical text	2-6-15
-2	Chg.(.) to [ ]=mm	12-4-14
-1	Refer to Bull. 214 Optional Mtg	8-25-14

**PREM**  
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PREM PART SPHE-400  
INTERNATIONAL PC SERIES

Approved: TJ KLOTZ

Scale: None

Date: 11/13/2009