

Prem's **SPW-2400 Series** is a group of 24VA, International-Capable, Low Profile, PC mount transformers with dual 115/230V primaries and dual secondaries that are designed to be used in low power applications where minimum height is required. They provide the high isolation, creepage, and clearance distances required to comply with many international safety standards.

- Dual primaries & dual secondaries: Must be series or parallel connected
- Insulation system: Class B (130°C), UL 1446 (File E85315)
- Dielectric strength: 4500Vrms primary to secondary
- UL94V-0-rated bobbin & shroud
- Shrouded primary & three flange bobbin design; no electrostatic shield required
- Anchor, insulating, and crossover tapes plus two distinct, separate windings for each primary & secondary assure excellent dielectric strength capabilities
- 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
- Immersed in 100% solids epoxy resin to withstand most aqueous and solvent cleaning systems
- Other primary and secondary voltages may be custom designed to your specifications

SPW-2400 Series (24VA) Data Sheet

AGENCY CERTIFICATIONS:

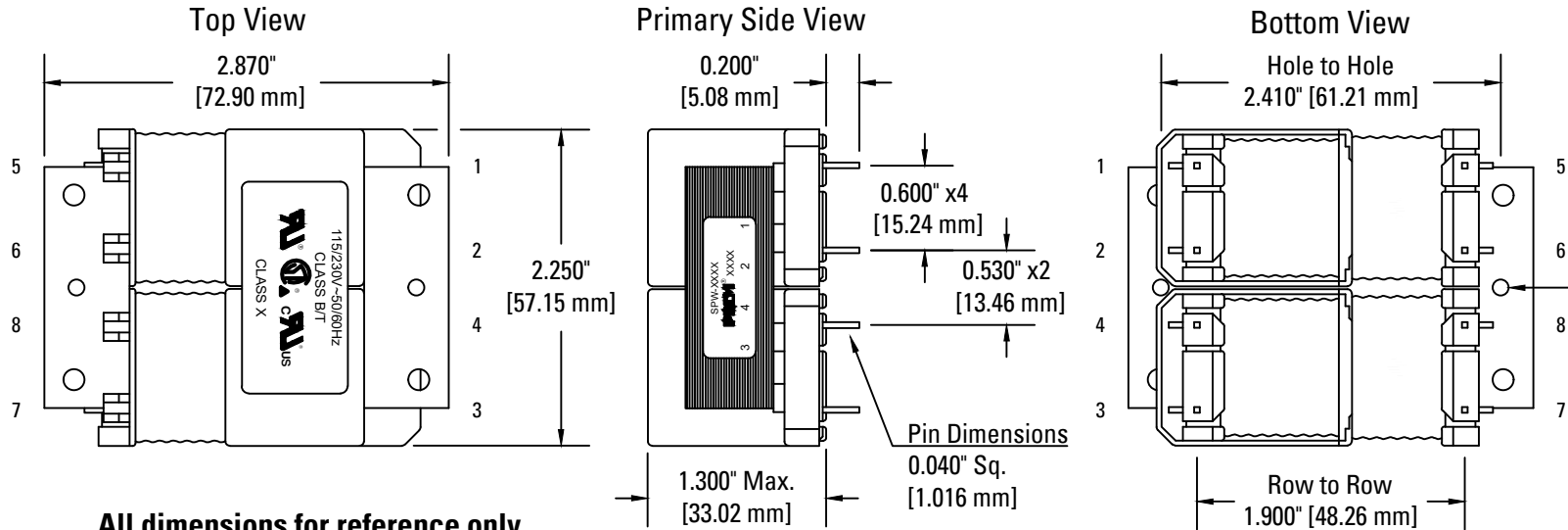
UL 1446 (File E85315)

UL 1950 (File E125106)

UL 1585/5085-3 Class 2 & 3:
SPW-2400 to -2407, &
SPW-2411 (File E125107)

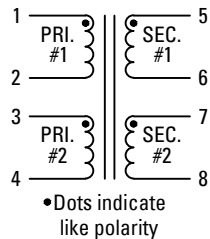
cUL: UL tested to CAN/CSA
C22.2 No. 234-M90
(File E125106), &
C22.2 No. 66.1-06, 66.3-06
(Class 2): SPW-2400 to
-2403 (File 125107)

CSA: C22.2 No. 950-95
(File 063944)



x2 optional mounting center holes for #4 screws (see [Tech Bulletin No. 214](#))

Schematic



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

Input Voltage 1-4 (tie 2-3): 230V @ 50/60Hz
Input Voltage 1-4 (tie 1-3, 2-4): 115V @ 50/60Hz

Secondary Series Connections: Tie 6-7; output 5-8
Secondary Parallel Connections: Tie 5-7, 6-8; output 5-8

FUSE TYPES/VALUES USED TO GAIN SAFETY AGENCY COMPONENT RECOGNITION

PREM P/N	FUSE CIRCUIT LOCATION	FUSE MFR.	FUSE P/N
SPW-2400	Secondary	Bussmann (Eaton / Cooper)	AGC 2.5A (10.0V Output) or AGC 5A (5.0V Output)
SPW-2401	Secondary		MDL-2 / MDL-2-R (12.6V _{OUT}) or MDL-4 / MDL-4-R (6.3V _{OUT})
SPW-2402	Primary (Mains)		MDL-3/16 / MDL-3/16-R (230V _{IN}) or MDL-3/8 / MDL-3/8-R (115V _{IN})
SPW-2403 to -2411	Primary (Mains)	Littelfuse, Inc. (Des Plaines, IL)	218.200 (230V _{IN}) or 218.400 (115V _{IN})

PART NUMBER	RMS RATING WITH SECONDARIES IN:	
	SERIES	PARALLEL
SPW-2400	10VCT @ 2.4A	5V @ 4.8A
SPW-2401	12.6VCT @ 1.9A	6.3V @ 3.8A
SPW-2402	16VCT @ 1.5A	8V @ 3.0A
SPW-2403	20VCT @ 1.2A	10V @ 2.4A
SPW-2404	24VCT @ 1.0A	12V @ 2.0A
SPW-2405	34VCT @ 700mA	17V @ 1.4A
SPW-2406	40VCT @ 600mA	20V @ 1.2A
SPW-2407	56VCT @ 425mA	28V @ 850mA
SPW-2408 *	88VCT @ 270mA	44V @ 540mA
SPW-2409 *	120VCT @ 200mA	60V @ 400mA
SPW-2410 *	230VCT @ 100mA	115V @ 200mA
SPW-2411	30VCT @ 800mA	15V @ 1.6A

* Voltage ratings cannot be approved under UL 1585/5085-3

6/21/19 | -5 | Updated agency approvals; updated fuse mfr. name | AG

11/9/15 | -4 | Updated agency approvals | RR

DATE | ISS. | REVISION | BY

Designed by: JRH 1/16/97
Drawn by: AG 6/20/19
Checked by: DB & TJK
Drawing rev.: SPW-2400-5

PREM
MAGNETICS, INC.

3521 N Chapel Hill Rd
Johnsburg, IL 60051
www.premmagnetics.com