SPW-1300 Series (20VA) Data Sheet

Prem's SPW-1300 Series is a group of 20VA, International-Capable, Standard Profile, PC mount transformers with dual 115/230V primaries and dual secondaries that are designed to be used in low power applications. 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

AGENCY CERTIFICATIONS:

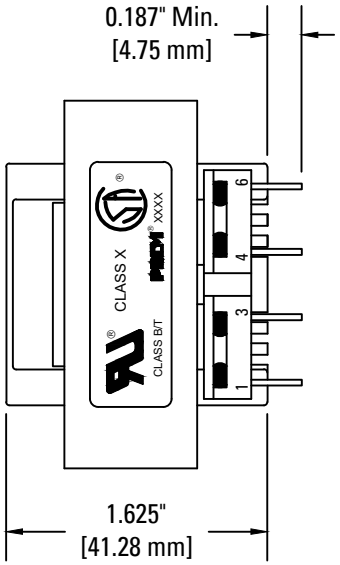
UL 1446 (File E85315)

UL 1950 (File E125106)

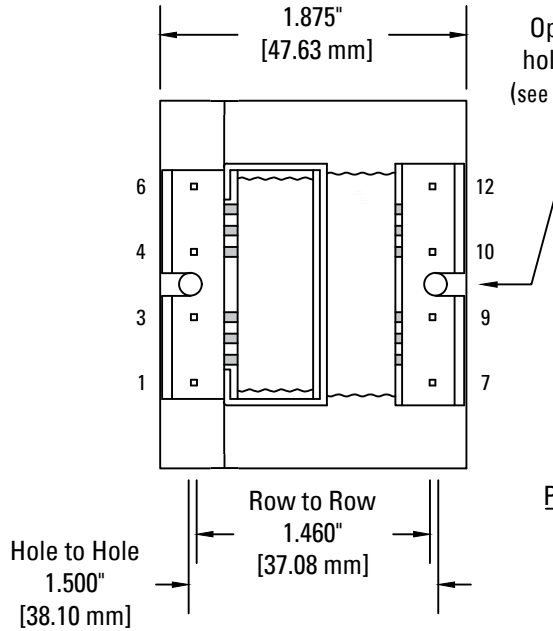
UL 1585/5085-3 Class 2 & 3 (File E125107)

UL tested to CAN/CSA C22.2 No. 66.1-06 & No. 66.3-06 Class 2 (File 063944)

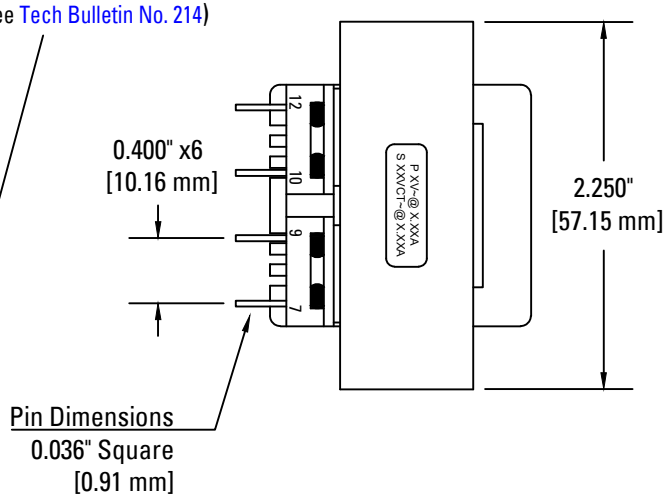
Primary Side View



Bottom View

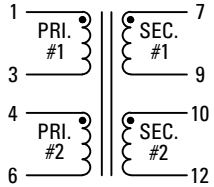


Secondary Side View



All dimensions for reference only.

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 1-6 (tie 3-4): 230V @ 50/60Hz
Input Voltage 1-6 (tie 1-4, 3-6): 115V @ 50/60Hz

Secondary Series Connections: Tie 9-10; output 7-12
Secondary Parallel Connections: Tie 7-10, 9-12; output 7-12

PART NUMBER	RMS RATING WITH SECONDARIES IN:	
	SERIES	PARALLEL
SPW-1300	10VCT @ 2.0A	5V @ 4.0A
SPW-1301	12.6VCT @ 1.6A	6.3V @ 3.2A
SPW-1302	16VCT @ 1.25A	8V @ 2.5A
SPW-1303	20VCT @ 1.0A	10V @ 2.0A
SPW-1304	24VCT @ 830mA	12V @ 1.66A
SPW-1305	28VCT @ 720mA	14V @ 1.44A
SPW-1306	36VCT @ 560mA	18V @ 1.12A

FUSE TYPES/VALUES USED TO GAIN SAFETY AGENCY COMPONENT RECOGNITION

PREM P/N	FUSE CIRCUIT LOCATION	FUSE MFR.	FUSE P/N
SPW-1300	Secondary	Bussmann (Eaton / Cooper)	AGC 2.5A (10.0V Output) or AGC 5A (5.0V Output)
SPW-1301 to -1306	Primary		MDL-15/100 (230V Input) or MDL-3/10 (115V Input)

DATE | ISS. | REVISION | BY
6/3/19 | -2 | Updated agency approvals; updated fuse mfr. name | AG
3/8/18 | -1 | Updated diagrams | AG

Designed by: JRH 8/9/89
Drawn by: AG 5/29/19
Checked by: DB & TJK
Drawing rev.: SPW-1300-2

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