

Ignition Transformer

APPLICATION

This transformer is intended for industrial or commercial heating applications that use a 6000 VAC input spark ignitor to ignite fuel at a burner. This product is an internally grounded, single pole electrode type ignition transformer. This product is intended for installations covered by but not limited to NFPA 70, NFPA 79, NFPA 85, NFPA 86, UL 795, CSD-1, ANSI Z83.4, ANSI Z83.18, ANSI Z21.13, and CSA B149.3.

Approvals

CSA Certified

- Allanson CSA File # L744Z
- CSA 22.2 No. 13



UL Recognized Component

- Allanson UL File # E33739
- UL 506



SPECIFICATIONS

Electrical Input Rating Available

- 120VAC/50-60 Hz
- 240VAC/60 Hz
- 240VAC/50 Hz

Ambient and Surface Mounting Temperature

+5° F to 110° F

Amperage

- Operation: 1.5A input on the primary.
- Inrush current for first 250 milliseconds:
 - 1) 8A on first start (new out of the box).
 - 2) 3A on every start thereafter.

Shipping Weight

10 lbs

Grounding

This transformer is a signal electrode type and the primary is internally grounded. If a separate primary ground wire is required, contact Karl Dungs for different models.

Mounting Position

Any

Electrical Connection on Primary

Leads with 1/2" opening for locknut.

ORDERING

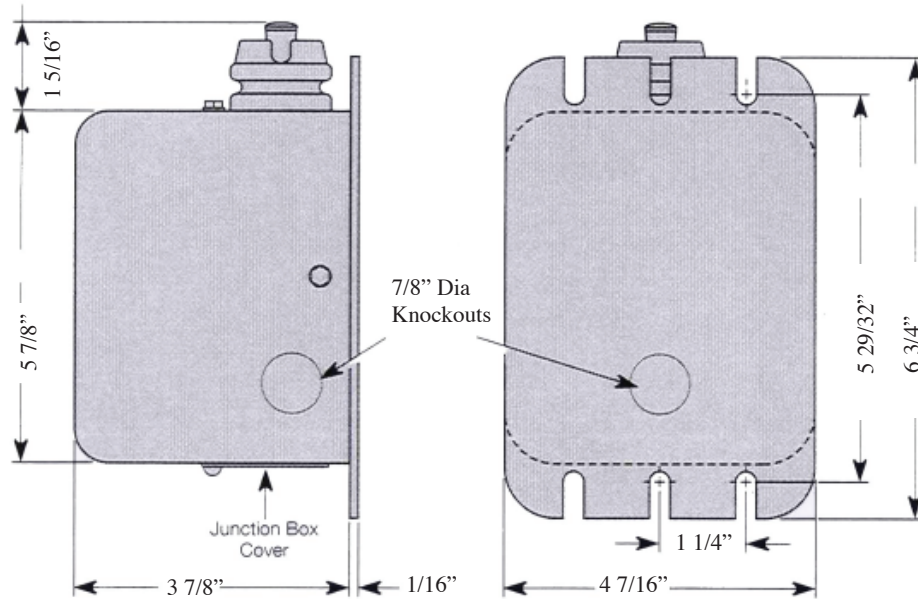
Part Number	Primary Voltage	Secondary Voltage	Allanson Type
48996	120V/50-60 Hz	6,000 VAC	1092-S
48995	240V/60 Hz	6,000 VAC	1112-S
48994	240V/50 Hz	6,000 VAC	1196-S

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DIMENSIONS



ATTENTION

- Read these instructions carefully.
- Failure to follow them and/or improper installation may cause explosion, property damage and injuries.
- Installation must be done with the supervision of a licensed burner technician.
- Check the ratings in the specifications to make sure that it is suitable for your application.
- Never perform work if gas pressure or power is applied, or in the presence of an open flame.
- Label all wires prior to disconnection when servicing. Wiring errors can cause improper and dangerous operation.
- The system must be installed, used, and maintained to meet all applicable national and local code requirements such as but not limited to NFPA 70, NFPA 79, NFPA 86, CSD-1, ANSI Z21.13, UL 795, NFPA 85, or CSA B149.3.

TROUBLE SHOOTING

- Resistance across L1 and L2 should be 2.5 Ohms.

INSTALLATION AND WIRING INSTRUCTIONS

- Remove the protective paper on top of the transformer.
- The secondary ignition GTO wire must not exceed 8 ft. Otherwise, there will be too much resistance, and the transformer will overheat.
- The spark gap must be between 1/8" to 3/16".
- Connect the primary leads on the transformer to L1 and L2. Either lead can be L1 or L2, however, reversing the wires can sometimes reduce noise.
- Use GTO wire to connect the secondary to a spark ingitor capable of withstanding a continuous input of 6000 VAC.
- The transformer must be grounded. Mount and secure the tranformer to a properly grounded metal surface.
- Do not wrap the GTO wire around the insulator on the secondary, and do not bundle the GTO wire together. This causes additional capacitance.



Do not ground the secondary using a ground wire. The secondary requires only one wire, which is connected to a spark ignitor.



The ignition transformer requires natural ventilation for cooling. Do not cover the transformer, and do not have any walls within one-half foot of the transformer. This does not apply to the mounting surface.



Do not use a 240/60 Hz rated transformer on 240/50 Hz. The transformer will overheat, which will decrease the transformer's life.