

Table of Contents

Table of Contents	Page 1
Approvals	Page 1
Attention	Page 1
Specification	Page 2
Dimensions	Page 3
Trouble Shooting	Page 3
Installation and Wiring Instructions	Page 3



Approvals



CSA Certified:
Allanson CSA File # L744Z
CSA 22.2 No. 13



UL Recognized Component
Allanson UL File # E33739
UL 506

Attention



The installation and maintenance of this product must be done under the supervision of an experienced and trained specialist. Never perform work if gas pressure or power is applied, or in the presence of an open flame.

**Safety
first
O.K.**

On completion of installation on the Ignition Transformer, perform a function test.



Please read the instruction before installing or operating. Keep the instruction in a safe place. You find the instruction also at www.dungs.com. If these instructions are not heeded, the result may be personal injury or damage to property.

**IFGC
UL CSA
ANSI
NFPA**

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.

Explanation of symbols

1, 2, 3 ... = Action
• = Instruction

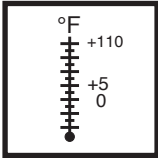
Specification

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.



Electrical Input Rating Available/VA
120 VAC/50-60 Hz
240 VAC/60Hz
240 VAC/50 Hz

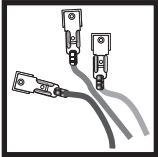
Amperage
Operation: 1.5 A input on the primary. Inrush current for first 250 milliseconds:
1) 8 A on first start (new out of the box)
2) 3 A on every start thereafter.



Ambient and Surface Mounting Temperature
+5 °F to +110 °F (-15 °C to +40 °C)

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.

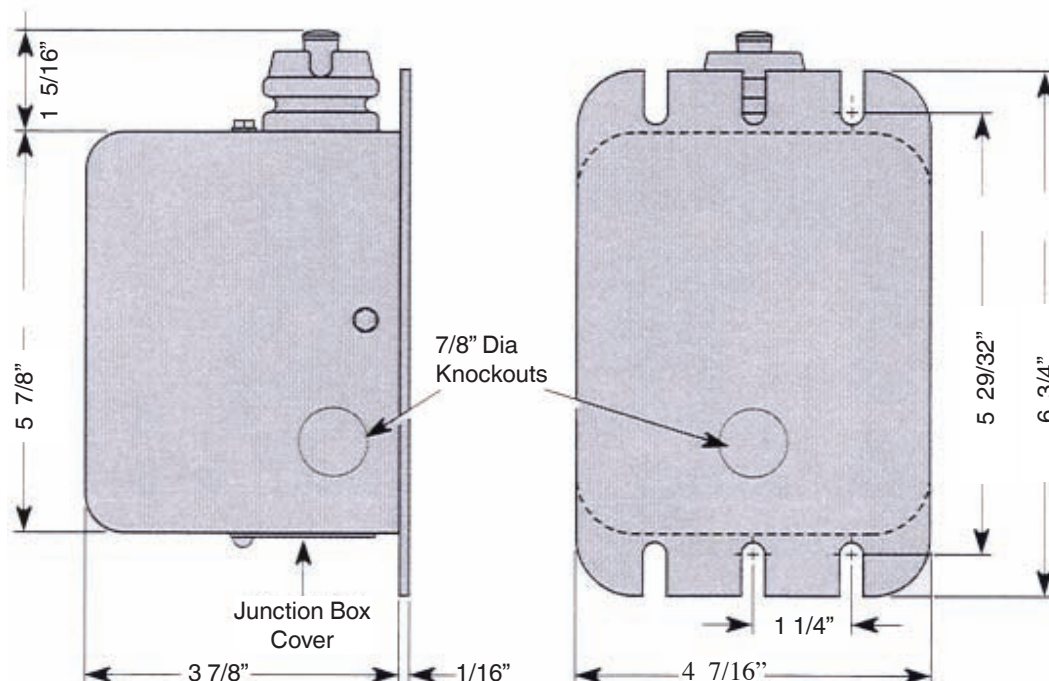


Mounting Position
Any
Electrical Connection on Primary
Leads with 1/2" opening for locknut.

Part Number	Primary Voltage	Secondary Voltage	Allanson Type	Input Current +/- 15 % @ 50 Hz	Input Current +/- 15 % @ 60 Hz
48996	120 V / 50 - 60 Hz	6,000 VAC	1092-S	1.60	0.50
48995	240 V / 60 Hz	6,000 VAC	1112-S	0.60*	0.25
48994	240 V / 50 Hz	6,000 VAC	1196-S	0.40	0.20*

*Not recommended for operation at this frequency. The transformer may overheat, which will decrease the transformer's life.

Dimensions



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 $\frac{1}{8}$ " to $\frac{3}{16}$ ".
- 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 continous input of 6000 VAC.
- The transformer must be grounded. Mount and secure the transformer 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.

We reserve the right to make modifications in the course of technical development.



Karl Dungs Inc.
 3890 Pheasant Ridge Drive NE
 Suite 150
 Blaine, MN 55449, U.S.A.
 Phone 763 582-1700
 Fax 763 582-1799
 e-mail info@karldungsusa.com
 Internet <http://www.dungs.com/usa/>

Karl Dungs GmbH & Co. KG
 P.O. Box 12 29
 D-73602 Schorndorf, Germany
 Phone +49 (0)7181-804-0
 Fax +49 (0)7181-804-166
 e-mail info@dungs.com
 Internet <http://www.dungs.com>