

# Ignition Transformer

## ATN110A-1

### Overview

The ATN110A-1 is an ignition transformer for burners. The primary voltage side can be configured for 100 or 200 V AC by switching the lead wires.



### Specifications

<b>Primary side voltage</b>	Rated voltage	100/200 V AC, 50/60 Hz, switchable using lead wires
	Allowable voltage	85 to 110 % of rated voltage
<b>Secondary side voltage</b>	Rated voltage	6000 V
	Allowable voltage difference	6000 V $\pm$ 10 % (secondary side: open)
	Short-circuit current	At 50 Hz: 21 mA. At 60 Hz: 16 mA
	Grounding method	Single-ended grounding
<b>Capacity</b>	At 50 Hz: 155 VA. At 60 Hz: 120 VA	
<b>Usage (time) rating</b>	Continuous	
<b>Recommended discharge gap</b>	2 mm	Note: If gap exceeds the recommended value, the allowable voltage difference for the secondary side may be exceeded, which may create a risk of transformer burnout.
<b>Recommended air flow between electrodes</b>	5 m/s	
<b>Wiring length on the secondary side</b>	1.5 m or less. Electric wires for neon tubes (JIS C 3308) or high-voltage electric wires for automobiles (JIS C 3405) must be used.	
<b>Insulation resistance</b>	Between the primary winding wire and the ground terminal: 50 M $\Omega$ or more with a 500 V DC megger	
<b>Insulation withstand voltage</b>	Between the primary winding wire and the ground terminal: 1500 V AC for one minute or 1800 V AC for one second.	
<b>Induction withstand voltage</b>	When the secondary side is open, a voltage of 1.5 times the rated primary voltage (100 or 200 V AC) applied to the primary side for one minute.	
<b>Allowable ambient temperature</b>	-20 to +55 °C at 50 % duty (cycles consisting of an energization period lasting for a maximum of 60 minutes followed by a 60-minute stop period) -20 to +40 °C (when continuously energized for 60 minutes or more)	
<b>Allowable ambient humidity</b>	95 % RH max.	
<b>Paint color</b>	Black, medium gloss	
<b>Weight</b>	Approximately 3.45 kg	
<b>Installation</b>	Screws in four locations	
<b>Standard accessories</b>	Grommets for conduit (2)	
<b>Qualified product</b>	Electrical Appliances and Material Safety Act Certification No. 61-18189	

This product has functions that are extremely important for safe combustion. At the planning stage of a combustion safety control system, please contact our sales staff for a detailed discussion of specifications.

## External dimensions

(Unit: mm)

Ignition transformer, model No. ATN110A-1

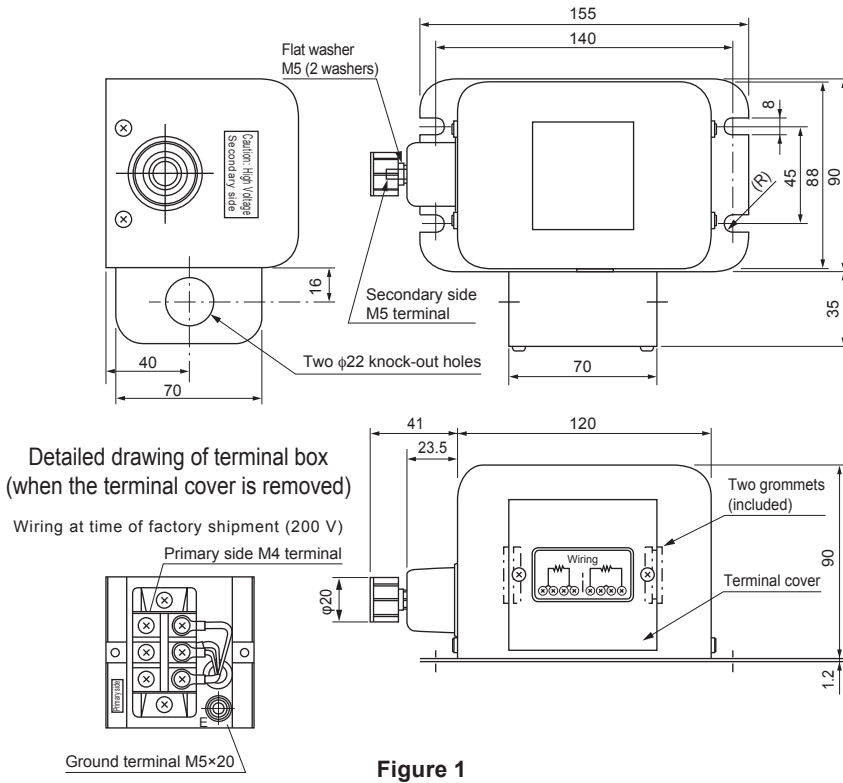
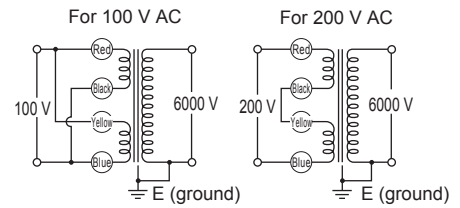


Figure 1

## Terminal connection diagram



Note: At the time of factory shipment, the product is set up for use at 200 V.

Figure 2

Please read "Terms and Conditions" from the following URL before ordering and use.  
<http://www.azbil.com/products/factory/order.html>

Specifications are subject to change without notice.

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