

# SINGLE-PHASE SWITCHED FAN CONTROLS 15A Maximum

VAC2/S-15E VAC1/S-15E X10690

#### **DESCRIPTION**

These variable phase angle regulators are robust, compact and enclosed units for 230V or 110V up to 15A single phase mains driven inductive loads, such as induction motors, fans & pumps. They give fully adjustable voltage outputs from zero to maximum. These controllers also incorporate an OFF switch when the potentiometer is fully anti-clockwise.

The controller has an integral R-C snubber network for control of inductive loads and a minimum set speed adjuster (at the rear) to allow the designer/installer to fix a minimum output voltage level to prevent a motor being driven too slowly.

The large triac enables the unit to handle high inrush currents with ample safety margin on industrial installations. An adhesive backed silver label and hairline knob are included for front panel mounting (or fitted to front of unit).

## **APPLICATIONS**

Suitable for most simple mains driven motors and fans.

# **FEATURES**

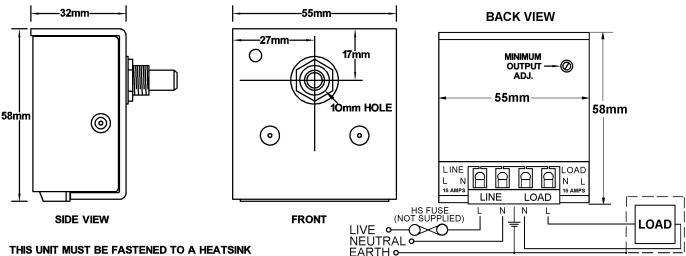
- Variable 0-98% output.
- OFF switch on potentiometer.
- Minimum set speed adjuster.
- Single-hole fixing.
- Rugged and compact.
- Large triac for inrush protection.
- Integrated R-C snubber. 9.55 6.68



Both models are externally similar. Model shown with fitted knob and dial.

# **INSTALLATION**

#### **CONNECTIONS & DIMENSIONS**



THIS UNIT MUST BE FASTENED TO A HEATSINK RATED AT 2 °C/W FOR 15A OPERATION.
HEATSINK PASTE ESSENTIAL
FOR GOOD THERMAL CONTACT.

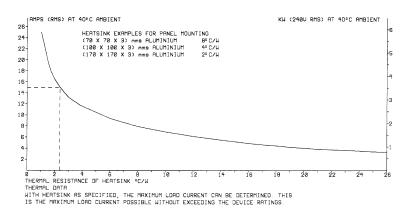
NOTE:

Minimum set speed adjustment is accessed via a rear cover hole (this is covered by an adhesive label).

Adjust the cermet screw using a small insulated terminal screwdriver.

#### **INSTALLATION**

# **COOLING REQUIREMENTS**



#### **SPECIFICATIONS**

Maximum rms on-state current 15A Minimum operating current 200mA Triac limiting rms on state current 25 A Peak one cycle surge @ 10mS 250 A Peak one cycle surge HS model @ 10mS 300 A I<sup>2</sup>t for fusing  $112 A^2 s$ 2500V rms Isolation voltage Maximum recommended unit temperature 70°C 105°C Maximum cable temperature Maximum recommended unit load at 20°C ambient, (without extra heatsink) 10 A Maximum recommended unit load at 40°C ambient, (without extra heatsink) 5 A Mains supply +/-10% @ 50/60Hz 110 or 230V ac

#### **FUSING:**

It is recommended to use semiconductor (fast acting) type fuses or circuit breakers (Semiconductor - MCB) for unit protection. On initial 'switch on' some loads may need an increased Factor of Safety (F of S) for unit and/or device protection. See the SRA datasheet for further information.

### **CE MARKING**

This product family carries a "CE marking". These phase angle type controllers require a suitable remote filter. For information see recommendation section and contact our sales desk. See the Declaration of Conformity.

#### **RECOMMENDATIONS**

Other documents available on request, which may be appropriate for your application: -

CODE	IDENTIT	DESCRIPTION
X10229	RFI	Single Phase Filtering recommendations - addressing EMC Directive
X10213	ITA	Interaction, uses for phase angle and for burst fire control.
X10255	SRA	Safety requirements - addressing the Low Voltage Directive
	(LVD)	including: - Thermal data/cooling; "Live" parts warning & Earth
		requirements; Fusing recommendations.
P01.1	COS	UAL Conditions of sale.

<u>NOTE:</u> It is recommended that installation and maintenance of this equipment should be done with reference to the current edition of the I.E.T. (formally I.E.E.) regulations (BS7671) by suitably qualified/trained personnel. The regulations contain important requirements regarding installation and safety of electrical equipment. Specific installers should refer to local and national regulations.

#### **ORDER CODE** State part number:

A72226 VAC2/S-15E (4kW @ 230V ac) Switched Fan Controller (inc. knob and dial)
A72160 VAC1/S-15E (1.6kW @ 110V ac) Switched Fan Controller (inc. knob and dial)

Optional extras include: F-series filter (current at which unit is to be used will be required).

Heatsink compound.



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