VAC1-15E & VAC2-15E

15A, 1.6kW 110V, 4kW 230V Fan control enclosed



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KEY FEATURES:

- Variable 0-98% Output: Achieve precise voltage control for a wide range of applications.
- Minimum Set Speed Adjuster: Ensures motors do not run too slowly, protecting your equipment.
- Rugged and Compact Design: Durable construction suitable for industrial environments.
- Large TRIAC for Inrush Protection: Handles high inrush currents with ease.
- Integral RC Snubber: Enhances performance with inductive loads.
- Single Hole Fixing: Simplifies installation and setup.

APPLICATIONS:

Perfect for controlling most simple mains-driven motors and fans, these controllers are versatile solutions for heating, ventilation, and air conditioning (HVAC) systems and industrial fan and pump applications. The VAC1-15E & VAC2-15E Single Phase Fan Controllers are robust and compact variable phase-angle regulators, designed to deliver reliable performance for single-phase mains-driven inductive loads. These enclosed fan controllers are suitable for either 230V or 110V systems, supporting up to 15A. Ideal for controlling induction motors, fans, and pumps, they offer fully adjustable voltage outputs from zero to maximum, ensuring precise control over your equipment's performance.

POWER REGULATOR

The controllers feature an integrated RC snubber network, specifically designed for managing inductive loads, and a minimum set speed adjuster located at the rear. This adjuster allows you to set a minimum output voltage level, preventing motors from running too slowly, which can be critical in certain applications. Built with a large triac, the units can handle high inrush currents, providing a significant safety margin for industrial installations. For convenience, an adhesive-backed silver label and hairline knob are included for front panel mounting or for direct use on the unit.

TECHNICAL SPECIFICATIONS

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



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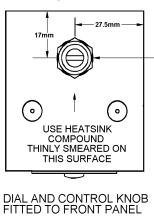
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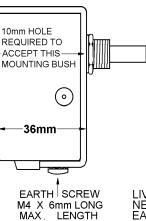
INSTALLATION **DIMENSIONS & CONNECTIONS**

FRONT VIEW



WARNING LIVE TERMINALS

SIDE VIEW



BACK VIEW 55mm 58mm LINE .OAD Ν Ν L N 16 AMPS LINE LOAD HS FUSE (NOT SUPPLIED) Ν N LOAD I IVF 0 \sim NEUTRAL O EARTH •

NOTE 1:

The unit must be fastened to a heatsink (suitable panel) rated at 2°C/W or better for a 15A operation.

(SWITCH OFF MAINS BEFORE COMMENCING ANY SERVICING WORK)

Heatsink paste is essential for use between surfaces (of unit and heatsink) for good thermal bonding.

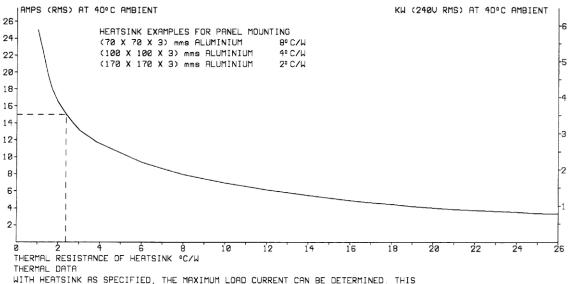
See INSTALLATION – cooling requirements.

NOTE 2:

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

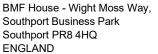
Adjust the cermet screw using a small terminal screwdriver.

COOLING REQUIREMENTS



WITH HEATSINK AS SPECIFIED, THE MAXIMUM LOAD CURRENT CAN BE DETERMINED. THIS IS THE MAXIMUM LOAD CURRENT POSSIBLE WITHOUT EXCEEDING THE DEVICE RATINGS.







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RECOMMENDATIONS

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 SRA datasheet for information.

DOCUMENTS

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

Code	Identity	Description
X10229	RFI	Filtering Recommendations: Addressing the 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, Earthing Requirements and Fusing Recommendations
P01.1	COS	UAL Conditions of Sale

It is recommended that installation and maintenance of this equipment should be done with reference to the current edition of the I.E.T. regulations (BS7671) by suitably qualified/trained personnel. The regulations contain important requirements regarding the safety of electrical equipment. For International standards refer STANDARDS on D of C.

OPTIONAL EXTRAS

Product Code	Product Description
N30001	Control Knob RN-113B SCI
Z01062	Heatsink Compound Syringe (Must be applied while fitting)

PRODUCT CODE AND RELATED PRODUCT CODE

Product Code	Product Description	
A72150	VAC1-15E – 15A – 1.6kW, 110v – Fan control enclosed	
A72225	VAC2-15E – 15A – 4kW, 230v – Fan control enclosed	



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