



# SINGLE-PHASE FAN CONTROLLER 1 Amps Maximum

**VAC2-1/RFI**

**X10380**

**DESCRIPTION**

This compact variable phase angle regulator is of open construction and is suitable for 230V operation, driving up to 1Amp single phase mains driven inductive loads, such as induction motors, fans & pumps. It gives fully adjustable voltage outputs from zero to maximum. The controller has an integral RC Snubber network for control of inductive loads and a Minimum Set Speed adjuster (multi-turn cermet) to allow the designer/installer to fix a minimum output voltage level to prevent a motor being driven too slowly. An integral choke/capacitor RFI circuit enables to controller to meet current EMC standards for emissions. 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 optional extras, for front panel mounting.

**APPLICATION**

Suitable for most simple mains driven motors & fans



**FEATURES**

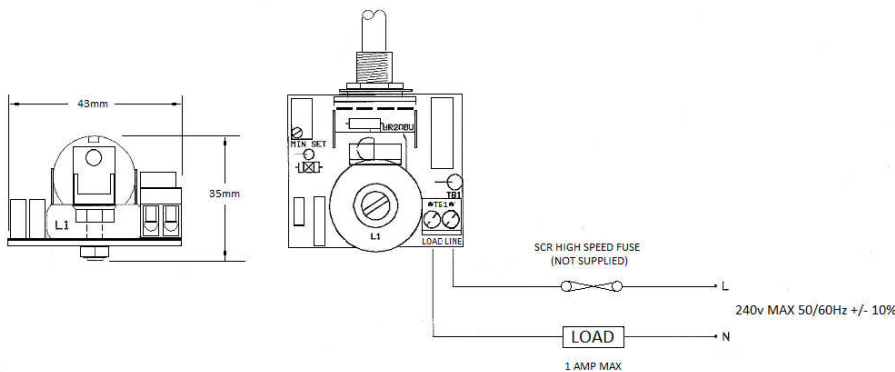
- **Infinitely variable 0-98% output.**
- **Minimum Set Speed Adjuster**
- **Single hole fixing.**
- **Rugged and compact.**
- **Large triac for inrush protection.**
- **Integral RC Snubber**
- **Integral EMC filtering**

**SPECIFICATIONS**

Maximum RMS on-state current	1A
Minimum operating current	100mA
Peak one cycle surge @ 10mS	80A
I <sup>2</sup> t for fusing	36 A <sup>2</sup> s
Isolation voltage	2500V rms
Maximum recommended unit temperature	70°C
Mains supply +/-10% @ 50/60Hz	230V ac
Output Range	0-98%
Minimum Set Speed Range	0-98%

**ORDER CODE: A72105 VAC2-1/RFI**

**INSTALLATION**



**WARNING**

DISCONNECT FROM SUPPLY BEFORE CARRYING OUT ANY SERVICING WORK

**FUSING & WIRING:**

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). Installation and maintenance of this equipment should be done with reference to the current edition of the I.E.E. wiring regulations (BS7671) by suitably qualified/trained personnel. The regulations contain important requirements regarding safety of electrical equipment (For International Standards refer to I.E.C/ directive IEC 950).

**RECOMMENDATIONS**

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

CODE	IDENTITY	DESCRIPTION
X10229	RFI	Single Phase Filtering recommendations - addressing EMC Directive
X10213	ITA	Interaction, uses for phase angle and for burst fire control.
X10255	SRA (LVD)	Safety requirements - addressing the Low Voltage Directive including :- Thermal data/cooling ; "Live" parts warning & Earth requirements; Fusing recommendations.
AP02/4	COS	UAL Conditions of sale.



**UNITED AUTOMATION LIMITED**

Southport Business Park  
Wight Moss Way  
Southport, PR8 4HQ  
ENGLAND

Tel: 0044 (0) 1704 – 516500  
Fax: 0044 (0) 1704 – 516501  
enquiries@united-automation.com  
www.united-automation.com

