X10380

Fan Speed Controllers

VAC1/RFI & VAC2/RFI

Up to 3A, 110V, 230V
Single Phase Fan Controller



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KEY FEATURES:

- ✓ Infinitely adjustable output from **0-98%.**
- ✓ **Minimum Set Speed Adjuster** to prevent slow motor operation.
- ✓ Triac surge-current withstand capability — see technical specifications.
- ✓ Integral RC snubber to support reliable switching of compatible inductive loads.
- ✓ Built-in **RFI suppression** to help reduce interference generated by triac switching.
- ✓ Rugged, compact design.

APPLICATIONS:

These controllers are ideal for managing **HVAC systems**, **ventilation setups**, and **motor-driven applications**, providing energy-efficient, precise control of simple mains-driven motors and fans.

The **VAC2-1/RFI**, **VAC2-3/RFI**, and **VAC1-1/RFI** single-phase fan controllers are compact, variable phase angle regulators designed for precise control of motors, fans, and pumps in industrial and commercial environments.

Operating at **230V** for the **VAC2** models and **110V** for the **VAC1**, these controllers offer **0-98% adjustable voltage output**, ensuring smooth, reliable operation.

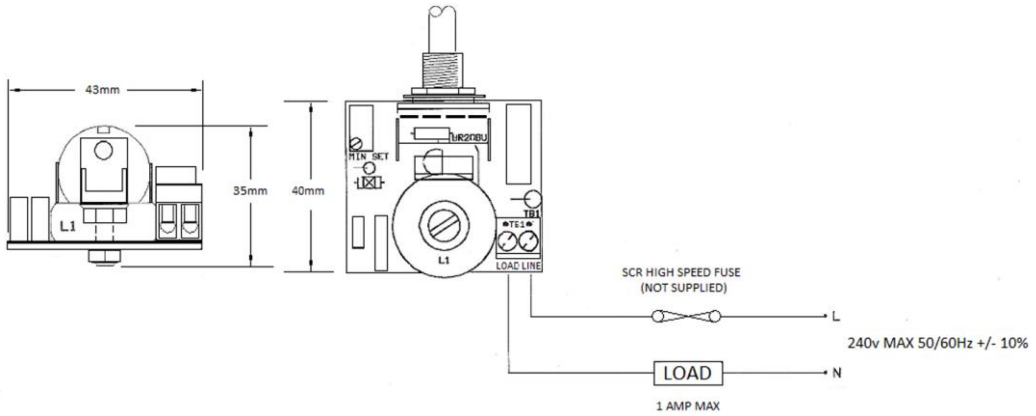
The controllers incorporate **RFI suppression** to help reduce switching interference and an **RC snubber** to support reliable operation with compatible inductive loads. Please, refer to the technical specifications for current and surge ratings.

TECHNICAL SPECIFICATIONS

	VAC1-1/RFI	VAC2-1/RFI	VAC2-3/RFI
Maximum RMS on-state current	1A	1A	3A
Peak one cycle surge @ 10mS	80A	80A	150A
I^2t for fusing	36 A^2s	36 A^2s	100 A^2s
Minimum operating current	100mA		
Isolation voltage	2500V rms		
Maximum recommended unit temperature	70ºC		
Mains supply +/-10% @ 50/60Hz	110V AC	230V AC	230V AC
Output Range	0-98%		
Minimum Set Speed Range	0-98%		

INSTALLATION DIMENSIONS & CONNECTIONS

➢ **VAC1-1 RFI & VAC2-1 RFI**



⚠ WARNING!
DISCONNECT FROM SUPPLY BEFORE CARRYING OUT ANY SERVICING WORK

YOU MUST READ THIS BEFORE INSTALLATION

ELECTRICAL SAFETY
WARNING: RISK OF ELECTRIC SHOCK
Always consult the Installation & Maintenance Instructions before connecting this product to the power supply.
WARNING: Disconnect Power Before Servicing
Ensure the electrical supply is safely disconnected before connecting to any supply, load, or control terminals.

INSTALLATION REQUIREMENTS
WARNING: Installation by Qualified Personnel Only
This product must only be installed or fitted by a competent, qualified installer familiar with the relevant electrical standards and installation practices.

USER RESTRICTIONS
WARNING: Not for Use by Vulnerable Individuals
This product is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they are supervised or instructed by a person responsible for their safety.

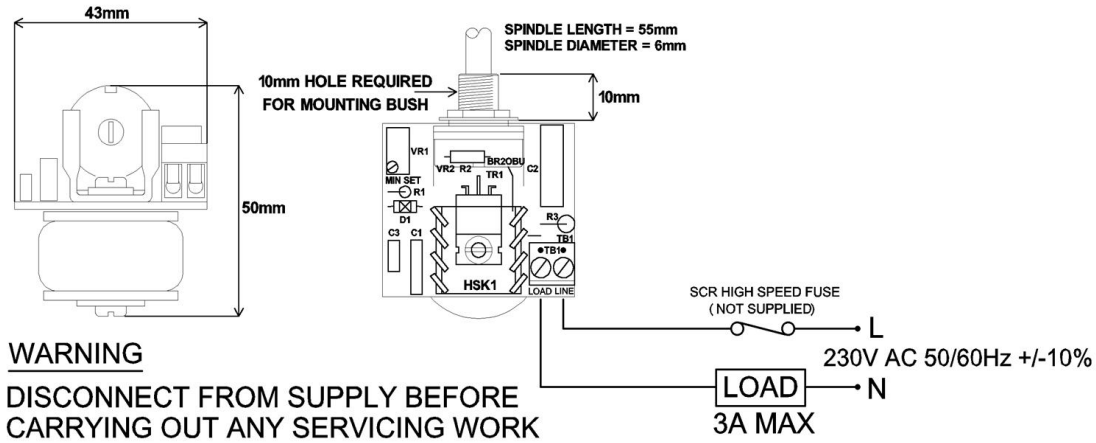
USAGE ENVIRONMENT
WARNING: Industrial Use Only
This is an industrial-grade product and is not intended for household use.

HOT SURFACE WARNING
WARNING: Hot Surfaces
On certain models, surfaces marked with this symbol become hot during use. Avoid direct contact and follow all thermal safety precautions.

VAC1/RFI & VAC2/RFI

Up to 3A, 110V, 230V | **Single Phase Fan Controller**

- **VAC2-3/RFI**



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 the SRA Datasheet for further 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.

PRODUCT CODE AND RELATED PRODUCT CODE

Product Code	Product Description
A71105	VAC1-1/RFI 1A, 110V Fan control with RFI
A72102	VAC2-1/RFI 1A, 230V Fan control with RFI
A72105	VAC2-1/RFI High Surge, 1A, 230V Fan control with RFI
A72301	VAC2-3/RFI 3A, 230V Fan control with RFI

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