



25A VARIABLE PHASE ANGLE REGULATOR

AVR

X10208

INTRODUCTION

This fully variable, powerful phase angle regulator is a manually controlled, robust, compact, enclosed unit for direct or transformer coupled, single-phase loads. The high current triac, fuse terminals and all main parts are enclosed and mounted on an integral heatsink to ensure long life with reliable high ambient temperature operation. The large triac enables the unit to handle high in-rush currents with ample safety margin on industrial installations.

APPLICATIONS

Suitable for conventional resistive heating elements, including ovens, moulders, dryers and some inductive loads e.g. transformers and motors.

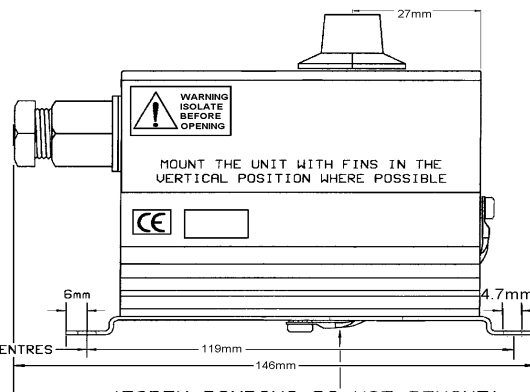
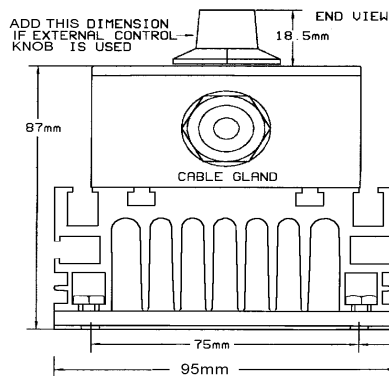
FEATURES

- Integral high speed fuse.
- Built in heatsink.
- High in-rush capability.
- Single entry cable gland.
- Control knob and dial supplied.



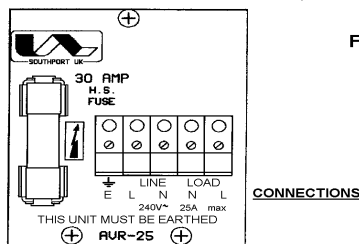
INSTALLATION

Fixing/Mounting/Dimensions



⟨EARTH BONDING—DO NOT REMOVE⟩
FOR OPTIMUM PERFORMANCE AND HEAT DISSIPATION
THE UNIT SHOULD BE MOUNTED VERTICALLY

WARNING
SWITCH OFF MAINS BEFORE COMMENCING
ANY SERVICE WORK



CONNECTIONS

SPECIFICATIONS

Mains voltage	110 or 230V ac \pm 10% @ 50/60 Hz	Isolation Classification	Class II
Min. Load current	200mA	Isolation voltage	2500V rms
Max. RMS current	25A.	I ² t for SCR fusing	250A ² s
Main control	Integral 220K pot.	Offstate dv/dt	500V/ μ s
Peak one cycle surge	250A	Replacement Fuse	30A 660V SCR type
Heatsink	1.3°C/Watt	Storage temp.	-20°C to +85°C
Max operating temp	0-65°C	Max. Cable entry	2.5mm ²
		Min. Level set	0-50% via integral cermet

FUSING:

It is recommended to use semiconductor (fast acting) type fuses or circuit breakers (Semiconductor - MCB) for unit protection. (See 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 Declaration of Conformity).

RECOMMENDATION

Other documents available on request, which may be appropriate for your applications.

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; Fusing recommendations.
AP02/4	COS	UAL Conditions of sale

NOTE It is recommended that 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).

ORDER CODE *State part number: AVR + (Mains supply voltage)*

Optional extras include F-series Filter.

Note: When ordering a filter, the current the AVR is to be used at will be required.



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