

# AVR - 25A

25A, 110v / 230v

Variable Phase Angle AC Regulator



## KEY FEATURES:

- ✓ **Integrated High-Speed Fuse:** Provides immediate protection against overcurrent.
- ✓ **Built-In Heatsink:** Ensures efficient cooling and prolonged operation in high-temperature environments.
- ✓ **High In-Rush Capability:** Handles large current surges without compromising performance.
- ✓ **Single-Entry Cable Gland:** Simplifies wiring and installation.
- ✓ **Control Knob and Dial Supplied:** Allows for easy manual adjustment and precise control.

This fully-variable, powerful, phase-angle regulator is a robust, compact, and enclosed unit designed for direct or transformer-coupled single-phase loads. Featuring a high-current TRIAC, integrated fuse terminals, and all main components mounted on an integral heatsink, this regulator ensures long life and reliable operation even in high ambient temperatures. The large TRIAC enables the unit to handle high in-rush currents with ample safety margin, making it ideal for industrial installations.

Ensure your industrial and commercial electrical systems operate smoothly with this reliable, high-performance phase-angle regulator. Perfect for a wide range of applications, this unit offers robust protection and easy manual control for optimal performance.

## TECHNICAL SPECIFICATIONS

<b>Mains Voltage</b>	110 or 230V AC ± 10% @ 50/60Hz
<b>Min. load current</b>	200mA
<b>Max. rms current</b>	25A
<b>Man control</b>	220kΩ potentiometer
<b>Peak one cycle surge</b>	250A
<b>Heatsink</b>	1.3°C/W
<b>Max. operating temp</b>	65°C
<b>Replacement fuse</b>	30A 660V SCR type
<b>Isolation Classification</b>	Class II
<b>Isolation voltage</b>	2500V rms
<b>I 2 t for SCR fusing</b>	250A <sup>2</sup> s
<b>Off-state dv/dt</b>	500V/μs
<b>Storage temp.</b>	-20°C to +85°C
<b>Max. cable entry</b>	2.5mm <sup>2</sup>
<b>Min. level set</b>	0-50% Via cermet

## APPLICATIONS:

Ideal for a diverse range of applications, including:

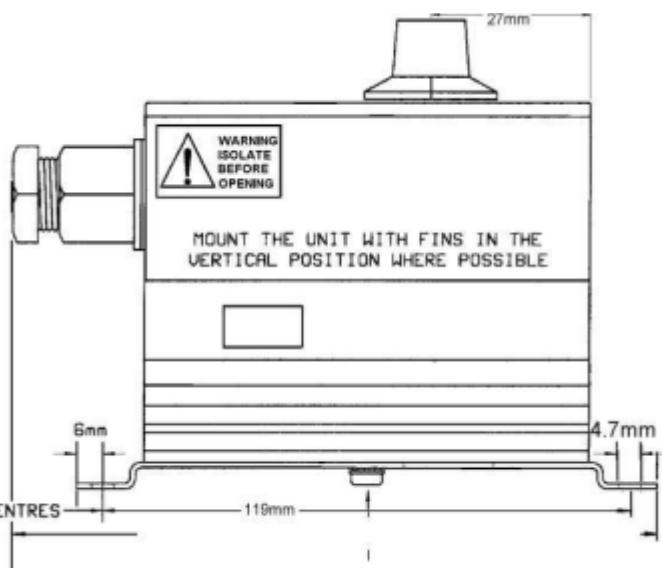
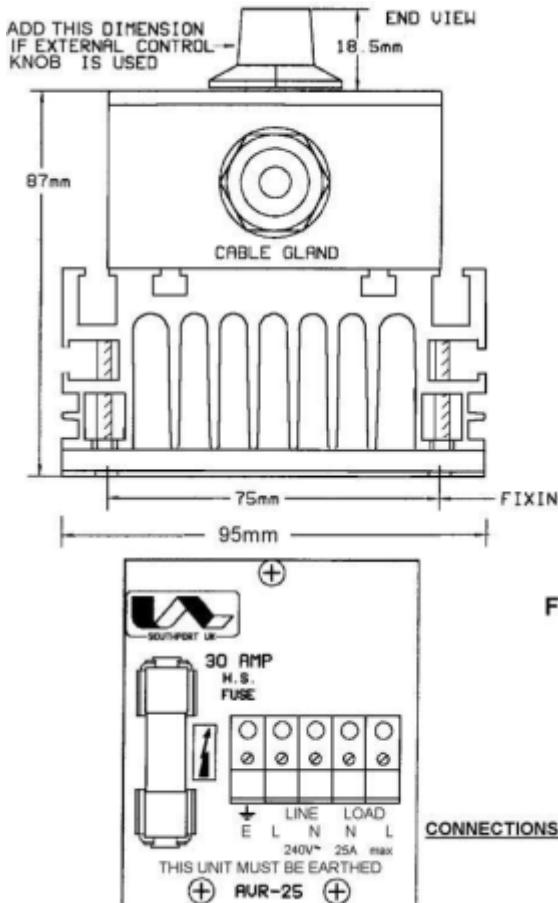
- Ovens
- Quartz lamps and heat lamps.
- Moulding machines.
- Dryers.
- Inductive loads such as transformers and motors.

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## INSTALLATION

## DIMENSIONS & CONNECTIONS



FOR OPTIMUM PERFORMANCE AND HEAT DISSIPATION  
THE UNIT SHOULD BE MOUNTED VERTICALLY

**WARNING**  
**SWITCH OFF MAINS BEFORE COMMENCING**  
**ANY SERVICE WORK**

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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	Filter 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

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
Z01062	Heatsink Compound Syringe ( <b>Must be applied while fitting</b> )
A-EN2010-30-S*	30A 10 series EMI Single phase Chassis Mount filter

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

## PRODUCT CODE AND RELATED PRODUCT CODE

Product Code	Product Description
A15101	25A 110V Phase Angle AC Regulator
A15201	25A 230V Phase Angle AC Regulator