X10532 – EVR Series
Mini Range AC Phase Angle Burst Fire Power Regulator Stack
Issue 3

1 Introduction

The EVR range of Thyristor stacks are available for single phase 230V applications (other voltage supplies are available). They can control loads of up to 25A, with a number of signal control options. The stacks are assembled to suit the final load with options of phase angle, burst firing control. All EVR thyristor stacks come complete with appropriately rated High Speed semiconductor fuses and an integral heatsink.

2 Applications

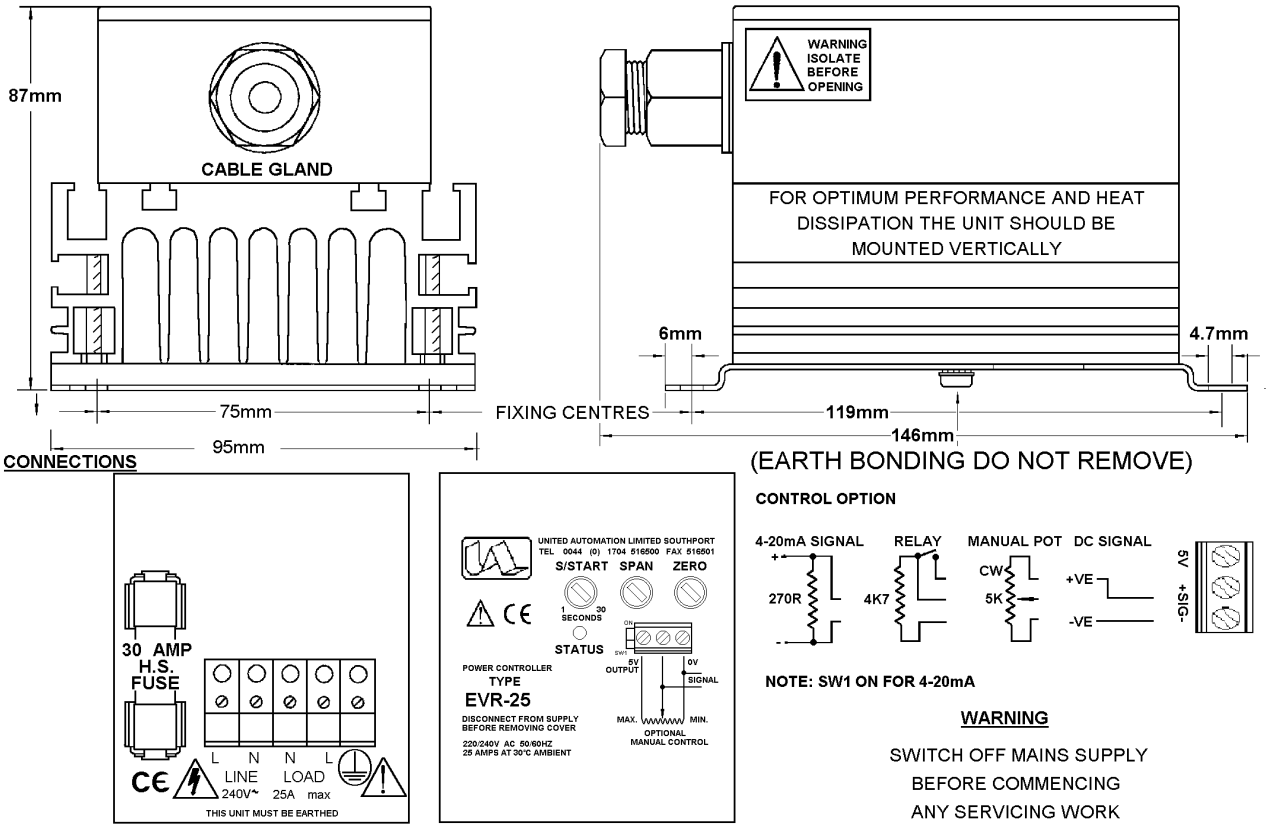
Suitable for heaters, ovens, dryers, air curtains, hot plates, heating and ventilation. SCR solid state phase angle power handing gives smooth proportional control of all types of industrial processes (e.g. furnaces, electroplating, controlled rectifiers, transformers etc.)

3 Features

- Single entry cable gland.
- Massive 0.3°C/Watt earthed heatsink.
- Phase angle or Burst firing versions available.
- Semiconductor fuses fitted.
- Simple installation.
- Optional input control

4 Installation

4.1 Connections and Dimensions



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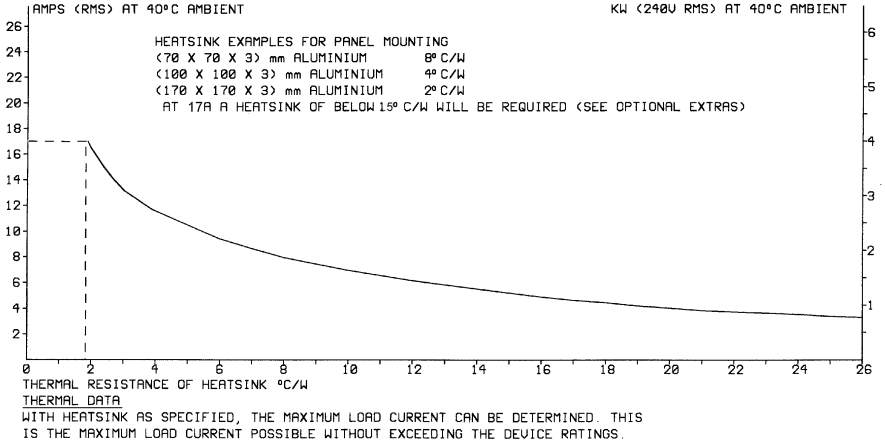
4.2 Cooling Requirements



5 Technical Specifications

Mains voltage	230V ac +10% -6%	Auxiliary Output	5Vdc
Signal Span Minimum	0-5Vdc	Triac Limiting RMS Current	26A
Signal Span Maximum	0-25Vdc	Peak Single Cycle Surge Current	250A
Signal Zero Offset	0-30% of Span	Max. Peak Voltage	600V
Signal Input Resistance	5000 ohms ±20%	Current Rating	25A
Manual Potentiometer	2K, 5K,or 10K	Replacement Fuse	30A 660V SCR type
Soft Start Time Constant	0-20 seconds	Max. Working Temperatue	65°C operational
Isolation Voltage	2500 Vrms	Storage Temperature	-20°C to +85°C

6 Fusing

A semiconductor, fast acting type fuse, is supplied as standard for unit protection. On initial operation, some loads may need an increased Factor of Safety (F of S) for unit and/or device protection. For spares or replacements contact our sales desk.

7 CE Marking

This product family carries a "CE" marking and incorporates a filter. (Standard type to emission levels BS EN 55022 Class A – Industrial) to address the EMC directive. For more information see recommendations section and contact our sales desk. (See Declaration of Conformity)

8 Recommendations

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
X10322	ASC	AC Stack Specification and Application Datasheet
P01.1	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.T. wiring regulations (BS7671) by suitably qualified / trained personnel. The regulations contain important requirements regarding safety of electrical equipment. For International standards refer to standards on the D of C.

9 Order Code

State Part Number	EVR-25 Phase Angle/Burst Fire Switched QVRS/TB RFI-E + (supply voltage)
Optional Extras	F Series Filter

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