

## PHASE ANGLE POWER 25A ac CONTROL MODULE

**PSR-25** 

X10205

## INTRODUCTION

The PSR-25 Power Control Module is a high power, full wave AC phase angle controller in a compact package, capable of regulating up to 6KW (25A) 230V ac. The PSR-25 regulator governs the amount of power supplied to the load, by controlling the phase angle of the AC supply. The low thermal impedance and high electrical isolation provides the equipment designer with a greater flexibility in a wide variety of applications.

## **APPLICATIONS**

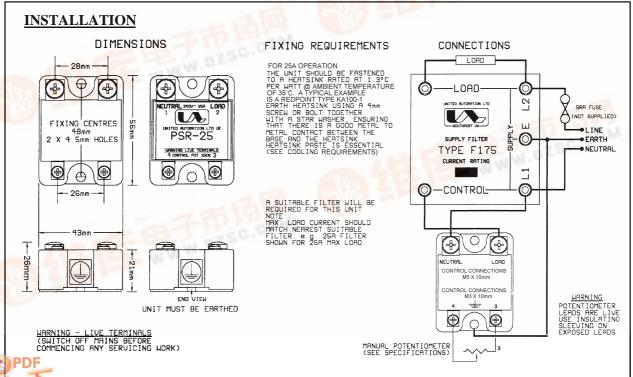
Suitable for quartz lamps, conventional resistive heating elements, including ovens, moulders and dryers and some inductive loads (e.g. transformers and motors).

## **FEATURES**

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- Solid state reliability.
- Epoxy encapsulated.
- Simple wiring.
- High current capability.
- Internal snubber.





# INSTALLATION COOLING REQUIREMENTS AMPS (RMS) AT 40°C AMBIENT HEATSINK EXAMPLES FOR PANEL MOUNTING (100 x 100 x 3) mm RLUMINIUM 9°C/M (100 x 100 x 3) mm RLUMINIUM 2°C/M (170 x 170 x 3) mm RLUMINIUM 2°C/M AT 25R A HEATSINK OF BELOW 1°C/M HILL BE REQUIRED (SEE OPTIONAL EXTRAS) AT 25R A HEATSINK OF BELOW 1°C/M HILL BE REQUIRED (SEE OPTIONAL EXTRAS) THERMAL RESISTANCE OF HEATSINK °C/M THERMAL DATA HITH HEATSINK AS SPECIFIED, THE MAXIMUM LOAD CURRENT CAN BE DETERMINED. THIS IS THE MAXIMUM LOAD CURRENT POSSIBLE WITHOUT EXCEEDING THE DEVICE RATINGS.

**SPECIFICATIONS** 

AC line voltage 110/230V +/- 10% @ 50/60 Hz Unit limiting RMS current 25A 600Vac Peak one cycle surge (10ms) 250A Max peak voltage  $250 \text{ A}^2\text{s}$ 200mA I<sup>2</sup>t for fusing Minimum operating current Isolation voltage 5000Vrms Leakage current 5mA Max. operating temperature 65°C 250K 1W @ Manual potentiometer(nominal)

230Vac

Storage temperature -20°C to +85°C Manual potentiometer (nominal) 100K 1W @ 110Vac

## **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	<b>IDENTITY</b>	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: PSR 25

Optional extras include: Potentiometer, FilterHeatsink paste, Heatsink assembly Note: When ordering a filter, the current the PSR is to be used at will be required.



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