

PAC2 POWER CONTROLLER

PAC₂

X10461

INTRODUCTION

The PAC2 module is a 25A, 230V ac phase angle, full wave controller in a compact and easy to install package. The PAC2 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.

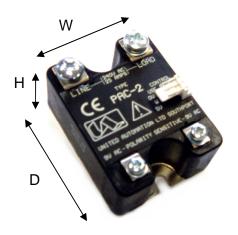
APPLICATIONS

Suitable for most power control applications such as infrared, quartz and ceramic heaters/lighting. It can also be used on inductive loads such as transformers and ac motors.

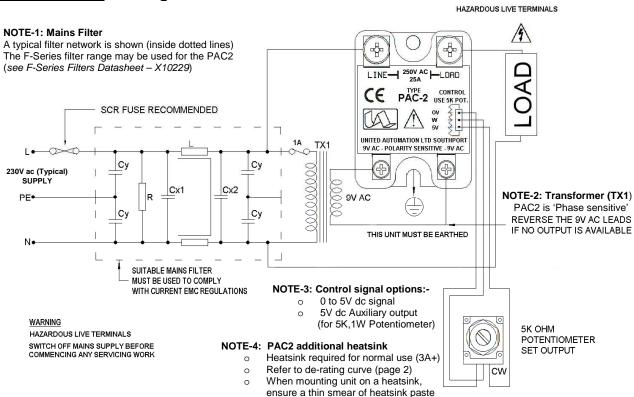
RoHS Compliant

FEATURES

- Solid state reliability.
- Surface-mount technology.
- 50 250V ac supply range.
- · Rugged and compact.
- 25A current capability (with use of additional heatsink)
- Internal snubber eliminates "nuisance switching".



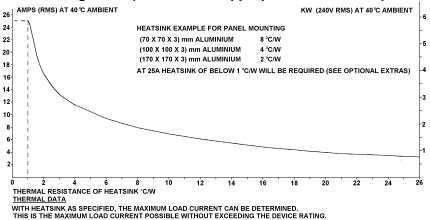
INSTALLATION Wiring and Connections



is applied to mating surfaces

INSTALLATION

De-rating curve (to determine appropriate heatsink requirements)



SPECIFICATIONS

50 to 250V @ 50/60 Hz 10V ac (+/-2V) @ 50mA ac line voltage range (min./max.) ac aux input supply Unit limiting rms current 25A I²t for fusing 250A²s Peak one cycle surge (10ms) 250A Max peak voltage 600V ac Minimum operating current 0.05A Leakage current 5mA Isolation voltage 3.5kV rms Control signal (3-way 0.1" header) 0-5V or 5V aux O/P (for pot.) Recommended potentiometer $5k\Omega$ Power consumption 1.2W 0 to 65℃ Storage temperature Maximum operating temperature 65℃ Weight 63g

Dimensions: 57mm (D) x 44mm (W) x 28mm (H) Fixing centres: 48mm pitch with 2 @ 4.5mm Ø (M4 clearance) holes

Connections: ac aux input supply terminals = 2-off M3 x 10mm pozi set screws (for use with spade or eyelet crimp connectors) = 2-off M5 x 10mm pozi set screws (for use with spade or eyelet crimp connectors)

FUSING

It is recommended that semiconductor, fast acting type fuses or circuit breakers (semiconductor - MCB) be used for unit protection and an appropriate safety fuse for unit supply (F1A). On initial operation some loads may need an increased factor of safety (F of S) for unit and/or device protection. See SRA datasheet for further information.

CE MARKING

This product family carries a "CE" marking. These phase angle controllers need a suitable remote filter. For information see recommendation section and contact our sales desk. See Declaration of Conformity.

RECOMMENDATIONS

Other documents, which may be appropriate for your application, are available on request:

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, Earth
		requirements and fusing recommendations.
P01.1	cos	UAL Conditions of sale.

<u>NOTE:</u> It is recommended that installation and maintenance of this equipment should be done with reference to the current edition of the I.E.T. (formally I.E.E.) regulations (BS7671) by suitably qualified/trained personnel. The regulations contain important requirements regarding installation and safety of electrical equipment. Specific installers should refer to local and national regulations.

ORDER CODE State part number: PAC2

(Supplied with 3-way control signal connectors [0.1" header each end] & lead [0.5m long] – Part ref.: J50109)

Optional extras includes: potentiometer, filter, transformer, heatsink paste and heatsink assembly



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