

PAC2

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POWER CONTROLLER

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

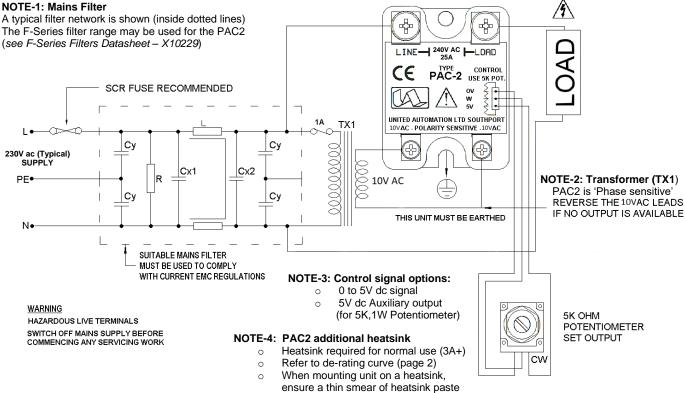
- Solid state reliability.
- Surface-mount technology. .
- 50 250V ac supply range.
- Rugged and compact. .
- 25A current capability (with use of additional heatsink) •
- Internal snubber eliminates "nuisance switching".



HAZARDOUS LIVE TERMINALS

INSTALLATION Wiring and Connections



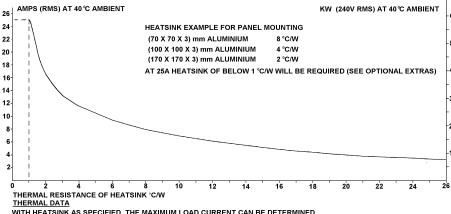


is applied to mating surfaces

INSTALLATION

De-rating curve (to determine appropriate heatsink requirements)

Stainless Steel typically 15 times less thermally conductive and mild steel is typically 5 times less thermally conductive.



THE WITH HEATSINK AS SPECIFIED, THE MAXIMUM LOAD CURRENT CAN BE DETERMINED. THIS IS THE MAXIMUM LOAD CURRENT POSSIBLE WITHOUT EXCEEDING THE DEVICE RATING.

SPECIFICATIONS

ac line voltage range (min./max.)		50 to 250V @ 50/60 Hz		ac aux input supply	10V ac (+/-2V) @ 50mA	
Unit limiting rms current		25A		I ² t for fusing	250A ² s	
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		5kΩ		Power consumption	1.2W	
Storage temperature		0 to 65°C		Maximum operating temperature	65°C	
				Weight	63g	
Dimensions:			,	Fixing centres: 48mm pitch with 2 @ 4.5mm Ø (M4 clearance) holes		
Connections:	ac aux input s ac line voltage	upply terminals e terminals		 2-off M3 x 10mm pozi set screws (for use with spade or eyelet crimp conneted and the spade or eyelet crimp conneted the spade or eyelet crimp conneted and the sp		

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					
X10378	ILR	Inductive loads remedy sheet for use with Phase angle controllers					
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. (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 Optional extras incluc	State part number: P le: 5K Potentiometer (A403 Heatsink Paste (Z01062	3001), Filter (A82	271), Transformer (T502 Assembly (A15216/A152		
CE	UNITED AU Southport Business Park Wight Moss Way Southport, PR8 4HQ ENGLAND	Tel: 0044 Fax: 0044 enquiries© <u>www.unite</u>	(0) 1704 – 516500 (0) 1704 – 516501 ⊉united-automation.com d-automation.com	nqa. ISO 9001 Registered	U K A S QUALITY MANAGEMEN
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