

THREE-POSITION PHASE ANGLE CONTROL ELECTRONIC HEAT SWITCH

SPC-240-13

X10639

INTRODUCTION

These switchable phase angle power regulators are robust and compact units, ideal for controlling single phase mains driven loads. The standard units are for 230V supply, with an integral three position and off control switch. The large triac enables the unit to handle high inrush currents with ample safety margin on industrial installations. An adhesive backed silver label and hairline knob are supplied.

APPLICATIONS

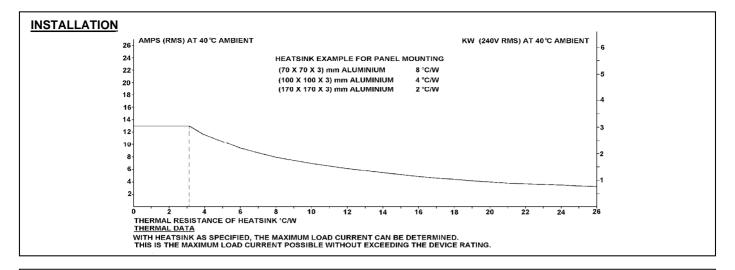
Specifically designed for quartz lamp loads, or other conventional resistive heating elements. May be connected in series or parallel configurations. Applications including ovens, moulders, dryers and some inductive loads, such as, transformers and motors.

FEATURES

- Large triac for inrush protection.
- Three position & off control.
- Single hole fixing.
- Rugged and compact.
- Supplied complete with hairline knob and dial



INSTALLATION Connections Heater Load Max 3kW AC O/P LOADED POSITIO VOLTS (RMS typical) ZERO SPC 240 173 Neutral • Mains Supply \bigcirc 240V 50Hz \bigcirc Live • \bigcirc **HS Fuse** \bigcirc Live Neutral LOAD **WARNING** This unit must be earthed. This unit requires fusing and must be mounted onto a suitable panel (heatsink) for cooling. HAZARDOUS LIVE terminals - isolate supply before commencing any installation work.



SPECIFICATIONS

Triac limiting RMS. On state current 15A Unit storage temperature range 0 to +85°C Unit limiting RMS. On state current 110A²s 13A I²t limiting value for fusing

230V ac @ 50/60 Hz 200A Mains supply (within 10%) Peak single cycle surge current

200mA Isolation voltage (RMS) 2500V MIN operating current

65°C Max unit operating temperature

Dimensions

Shaft diameter 6.3mm Shaft projection from bush 30mm **Bush length Fixing Hole Diameter** 10_{mm}

Overall dimensions 65mm (H) x 44mm (W) x 82mm, including full spindle (L)

FUSING

It is recommended to use semiconductor (fast acting) type fuses or circuit breakers (Semiconductor-MCB) for 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 Data sheet for further information.

CE MARKING

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

RECOMMENDATIONS

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

CODE	IDENTITY	DESCRIPTION
X10229	RFI	Single Phase Filtering recommendations - addressing 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; 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).

ORDERING State product description SPC-240-13

Page No. 2 of 2

Optional extras include:-Heatsink compound (thermal bonding paste); RFI Filter (to suit Load).

Additional (QLC) dial and hairline control knob available as spares.

Note: When ordering a filter the maximum current of the unit is to be used at will be required.



UNITED AUTOMATION LIMITED

Issue 3

1Southport Business Park Tel: 0044 (0) 1704 - 516500 Main Kew Tel: 0044 (0) 1704 - 516516 Sales Southport, PR8 4HQ Fax: 0044 (0) 1704 - 516501 Enquiry@united-automation.com **FNGI AND** www.united-automation.com Date 30/03/05



