

# **CSR2-SERIES**

## **POWER REGULATORS**

#### **INTRODUCTION**

The CSR Power Regulators are compact and robust units which are capable of controlling singlephase mains driven loads of up to 15A. The CSR2 - series regulators come in two styles, open (type B) and enclosed (type E), with the enclosed version having its own integral heatsink. The regulators gives a fully adjustable output from zero to maximum voltage. The standard unit is rated for 230V ac, but other voltages are available on request.

### APPLICATIONS

Suitable for conventional resistive heating elements such as ovens, quartz lamps, moulders and dryers. Also suitable for some inductive loads such as transformers, fans and motors.

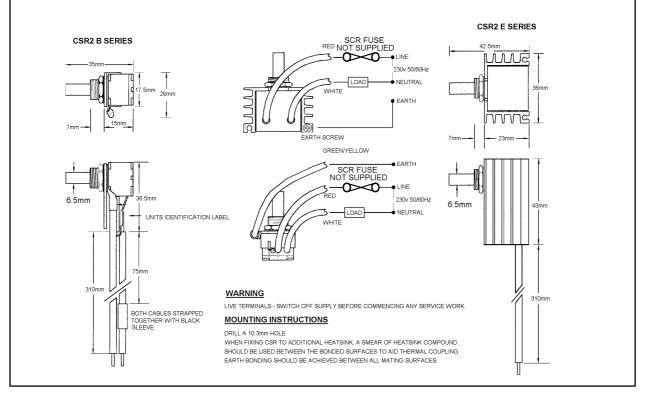
#### **FEATURES**

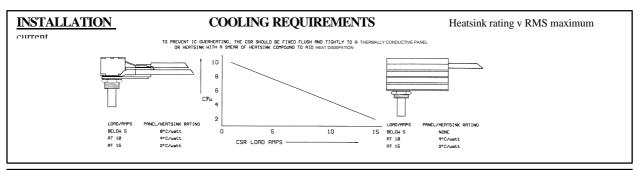
- Available in 6, 10, and 15 ampere ratings
- Compact and easy to use
- Simple installation with or without heatsink
- Discrete component giving high reliability
- Cost effective



### **INSTALLATION**

#### DIMENSIONS AND CONNECTIONS





SPECIFICATIONS U	NIT	CSR2	CSR2	CSR2	CSR2	CSR2	CSR2
Т	YPE	6B	6E	10B	10E	15b	15e
	А						
Maximum on-state current, Imax (tab @70°C)	(RMS)	6	6	10	10	15	15
Peak one cycle surge currents	А	100	100	120	120	150	150
Off - leakage current (maximum)	mA				2 -		
Minimum holding load current	mA				30		
RMS input voltage +/- 10% @ 50/60 Hz	V				230 -		
Repetitive peak voltage (tab @ 70°C)	V				400		
Hysteresis	%				5		
Total conduction phase angle (typical)	degrees				- 0 to 160°		
Controlled phase angle (typical)	degrees				30 to 160°		
Power transfer at Imax (efficiency)	%				99		
Tab surface operating range	°C	0 to + 75					
Storage temperature	°C	0 to + 75					
Insulation withstand capability (tab @ 70°C)	v	1500 for 1 min					
I <sup>2</sup> t limiting values for fusing	$A^2s$	18	18	50	50	100	100
Mounting hole diameter (minimum)	mm	10.3	10.3	10.3	10.3	10.3	10.3

#### FUSING:

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

#### CE MARKING

This product 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.

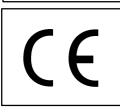
#### RECOMMENDATION

Other documents available on request, which may be appropriate for your applications.					
CODE	IDENTITY	DESCRIPTION			
X10229	RFI	Filtering recommendation - 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 & Earthing			
		requirements; Fusing recommendations.			
AP02/4	COS	UAL Conditions of sale			
<b>NOTE</b> It is recommended that installation and maintenance of this equipment should be done with reference					

**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: **CSR2** (*Denotes supply voltage*) + (**current rating**) + *type* '**B**' or '**E**' Optional extras include: Knob, Dial, Heatsink compound, Filters. Note: When ordering a filter, the current the csr is to be used at will br required.



#### UNITED AUTOMATION LIMITED 1 Southport Business Park Southport, PR8 4HQ, U.K. Tel (01704)-565713 Fax (01704)-569760



Page No 2 of 2 Issue 1 22/09/97