

CSR2-SERIES

POWER REGULATORS

CSR₂

X10282

INTRODUCTION

The CSR Power Regulators are compact and robust units which are capable of controlling single-phase 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.

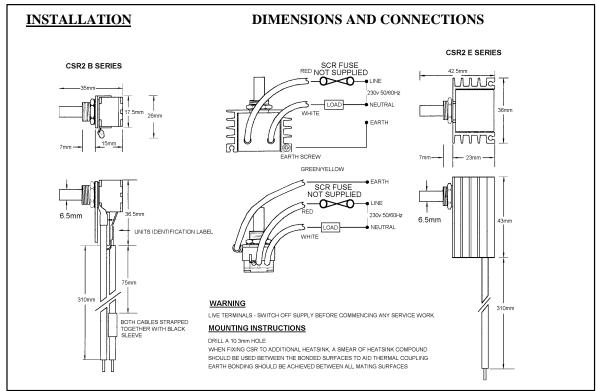
APPLICATIONS

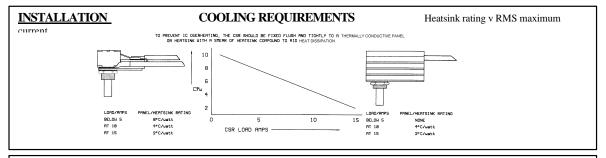
Suitable for conventional resistive heating elements such as ovens, quartz lamps, moulders and dryers. Also suitable for some inductive loads such as transformers, fans and motors.

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







<u>SPECIFICATIONS</u>	JNIT	CSR2	CSR2	CSR2	CSR2	CSR2	CSR2
7	TYPE	6B	6E	10B	10E	15b	15e
	A						
Maximum on-state current, Imax (tab @70°C)	(RMS)	6	6	10	10	15	15
Peak one cycle surge currents	A	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 2t 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 seerecommendations 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
NIOPPE T. 1		

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.



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