

CSR/604/1004/1504

POWER REGULATOR CHIP

INTRODUCTION

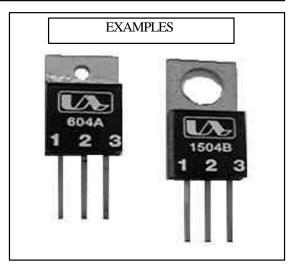
The CSR Power Regulator chip is a compact and robust unit which is capable of controlling single-phase mains driven loads of up to 15 amps. Used in conjunction with variable resistance (potentiometer), the chip gives a fully adjustable output from zero to maximum voltage.

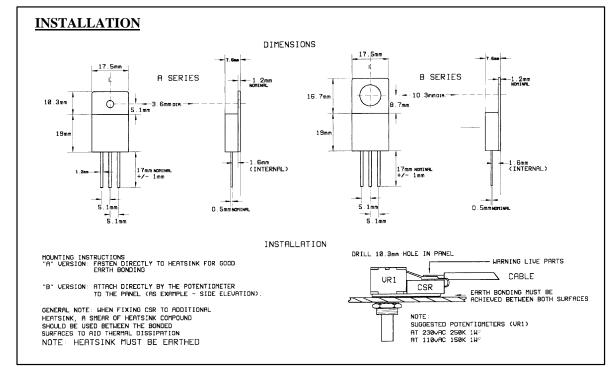
APPLICATIONS

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

FEATURES

- Available in 6, 10, and 15 ampere rating.
- Flexibility of mounting.
- Easy installation (3 pin connections).
- Low hysteresis level.
- Low cost.





NSTALLATION	CONNECTIONS CSR SERIES		COOLING REQUIREMENTS					
	U SCR FUSE L F	C INPUT POHER	HEATSINK RATING (*°C/u)	10 8 6 4 2 0 CSR L	5 ORD (R)	10	15	
SPECIFICATIONS		UNIT	CSR	CSR	CSR	CSR	CSR	CSR
			604A	604B	1004A	1004B	1504A	1504B
RMS max. On state current		A	6	6		10		15
Peak one cycle surge current		A	100		00 120	120		
Maximum off leakage current		mA				-		
Minimum holding load current		mA						
RMS input voltage +/- 10% @ 5	0/60 Hz	V						
Repetitive peak voltage	-:1)	V						
Total conduction phase angle (ty	pical)	degrees						
Controlled phase angle (typical)	a l	degrees						
Power transfer at max.	Current	%				99		
(efficiency)		90				0.4- 70		
Tab surface operating range Storage temperature		℃ ℃						
Insulation withstand capability		v			15(

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

RECOMMENDATION

Other documents available on request, which may be appropriate for your applications.				
CODE	IDENTITY	DESCRIPTION		
X10229	RFI	Filtering 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 & Earthing		
		requirements; Fusing recommendations.		
AP02/4	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.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: CSR 'A' OR 'B' + (Load rating) and (Supply voltage) Optional extras include: Knob, Dial, Heatsink compound.



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



Page No 2 of 2 Issue 2 17/07/98