

CSR/604/1004/1504

POWER REGULATOR CHIP

CSR

X10203

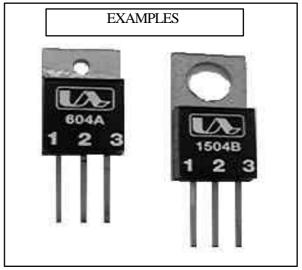
INTRODUCTIONThe CSR Power Regulator chip is a compact and robust unit which is capable of controlling single-phase mains driven loads of up to 15 amps. Used in conjunction with variable resistance (potentiometer), the chip gives a fully adjustable output from zero to maximum voltage.

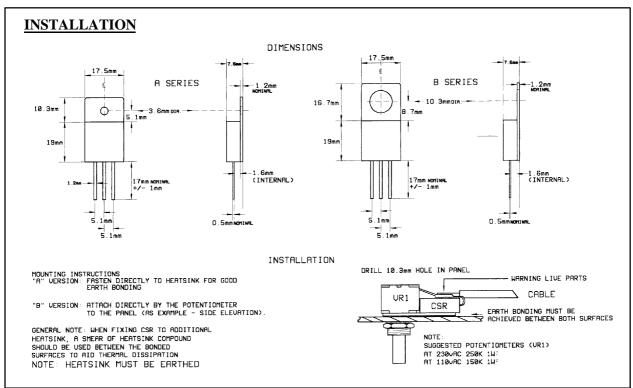
APPLICATIONS

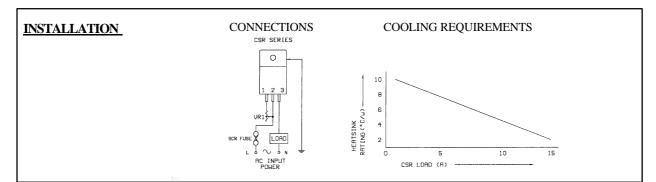
Suitable for conventional resistive heating elements such as ovens, quartz lamps, moulders and dryers. Also suitable for many inductive loads such as transformers, fans and motors.

FEATURES

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







SPECIFICATIONS	UNIT	CSR	CSR	CSR	CSR	CSR	CSR
		604A	604B	1004A	1004B	1504A	1504B
RMS max. On state current	A	6	6	10	10	15	15
Peak one cycle surge current	A	100	10	0 120	120	150	150
Maximum off leakage current	mA				2		
Minimum holding load current	mA	30					
RMS input voltage +/- 10% @ 50/60 Hz	V	110/230					
Repetitive peak voltage	V	400					
Total conduction phase angle (typical)	degrees	0 to 160°					
Controlled phase angle (typical)	degrees	30 to 160°					
Power transfer at max. Current	%	99					
(efficiency)							
Tab surface operating range	$^{\circ}\!\mathrm{C}$				0 to + 70		
Storage temperature °C					0 to + 75		
Insulation withstand capability	V			1500) for 1 min	ı	

FUSING:

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

CE MARKING

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 IDENT	ITY 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
NOTES TO	

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: CSR 'A' OR 'B' + (Load rating) and (Supply voltage) Optional extras include: Knob, Dial, Heatsink compound.



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