

CSR/604/1004/1504

CSR

X10203

POWER REGULATOR CHIP

INTRODUCTION

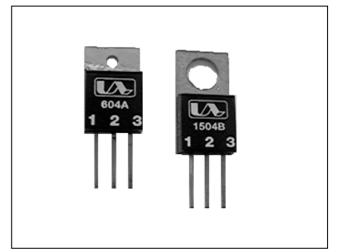
The CSR Power Regulator chip is a compact and robust unit, which is capable of controlling singlephase mains driven loads of up to 15 amps. Used in conjunction with variable resistance (potentiometer), the chip gives a fully adjustable output from zero to maximum voltage.

APPLICATIONS

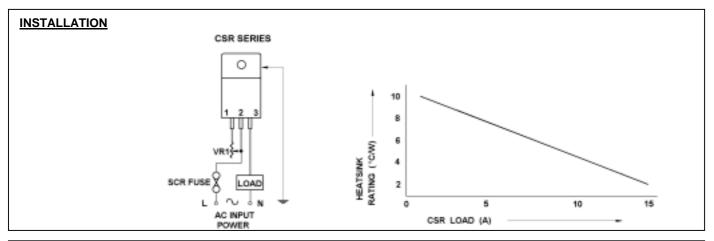
Suitable for conventional resistive heating elements such as ovens, quartz lamps, moulders and dryers. Also suitable for many inductive loads such as, transformers, fans and motors.

FEATURES

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



INSTALLATION DIMENSIONS 17.5mm 17.5mm **A SERIES B SERIES** 1.2mm 1.2mm ¹ ---10.3mm DIA→ 16.7mm 10.3mm 0 ←3.6mm DIA 8.7mm 5.1mm 19mm 19mm 1.6mm 1.6mm (INTERNAL) (INTERNAL) +/- 1mm 5.1mm 5.1mm 0.5mm NOMINAL 0.5mm NOMINAL 5.1mm INSTALLATION DRILL 10.3mm HOLE IN PANEL MOUNTING INSTRUCTIONS WARNING LIVE PARTS FASTEN DIRECTLY TO HEATSINK FOR GOOD EARTH BONDING CABLE VR1 "B" VERSION: ATTACH DIRECTLY TO THE POTENTIOMETER TO THE PANEL (AS EXAMPLE - SIDE ELE CSR _ EARTH BONDING MUST BE ☑ ACHIEVED BETWEEN BOTH SURFACES (AS EXAMPLE - SIDE ELEVATION). GENERAL NOTE: WHEN FIXING CSR TO ADDITIONAL HEATSINK, A SMEAR OF HEATSINK COMPOUND SUGGESTED POTENTIOMETER (VR1) SHOULD BE USED BETWEEN THE BONDED AT 230vAC 250K 1W AT 110vAC 150K 1W SURFACES TO AID THERMAL DISSIPATION NOTE: HEATSINK MUST BE EARTHED



SPECIFICATIONS	UNIT	CSR	CSR	CSR	CSR	CSR	CSR
		604A	604B	1004A	1004B	1504A	1504B
RMS max. On state current	Α	6	6	10	10	15	15
Peak one cycle surge current	Α	100	100	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 (efficiency)	%	99					
Tab surface operating range	٥C	0 to + 70					
Storage temperature	٥C	0 to + 75					
Insulation withstand capability	V	1500 for 1 min					
I ² t limiting values for fusing	A^2s	18	18	50	50	100	100

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).

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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