

VARIABLE AC REGULATOR WITH RFI SUPPRESSION

QVR/TB-RFI

X10250

INTRODUCTION

These variable phase angle power regulators are robust and compact units for 230V, up to 10A, which are ideal for controlling single phase mains driven loads. They give fully adjustable voltage output from 0-98% and the large triac enables the unit to handle high inrush currents with ample safety margin on industrial installations. These units incorporate their own RFI filter network to comply with EMC Regulations (Class A).

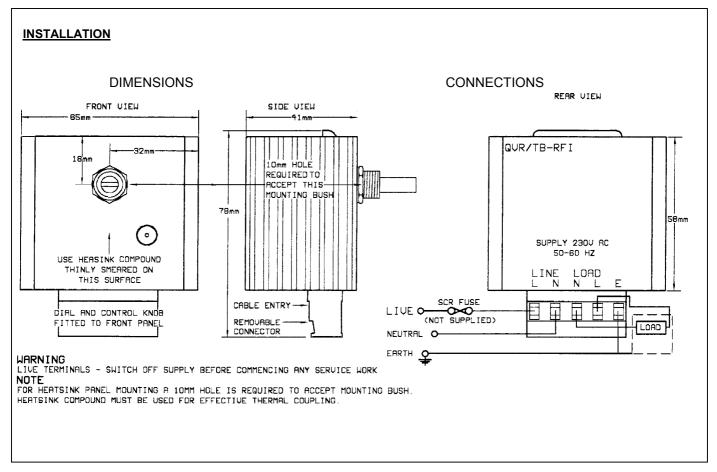
APPLICATIONS

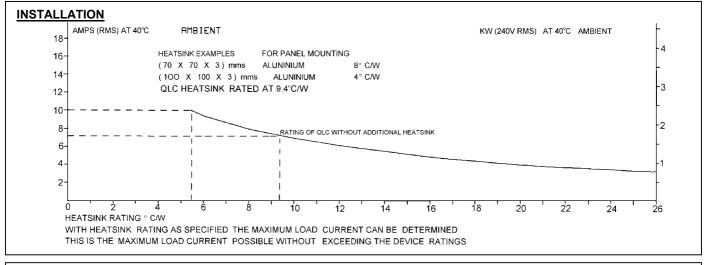
Suitable for quartz lamps, conventional resistive heating elements in series or parallel configurations. Applications including ovens, moulders, dryers and some inductive loads, for example transformers and motors.

FEATURES

- Integral RFI network.
- ON/OFF switched version (QVRS)
- Plug in power connector block.
- Single hole fixing.
- Rugged and compact
- Designed to maximise thermal dissipation







| SPECIFICATIONS Triac limiting RMS. On state cycle Peak one cycle surge @ (10mS) Min operating current Max forward volts drop at 10A Max load at 20°C ambient (without extra heatsink) Max unit operating temperature | 25A 320A 200mA 1.5V 10A 65°C | Isolation voltage I ² t limiting value for fusing Unit limiting RMS. On state current Mains supply tolerance, within 10% Mains frequency Unit storage temperature range | 2500V rms 112A ² s 15A 230V/110V ac 50/60Hz -20 TO +85°C |
|--|---|--|--|
| FURTHER DIMENSION Shaft diameter Bush length | 6.3mm 5mm | Shaft projection from bush Fixing hole diameter | 13mm 10mm |

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 product family carries a "CE" mark and incorporates a filter (Standard type to emission levels BS EN 55022 Class A - Industrial) to address the EMC directive. For information see recommendation 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 Interaction, uses for phase angle and for burst fire control. ITA 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:Non switchedQVR/TB RFI + (Supply voltage)State part number:SwitchedQVRS/TB RFI + (Supply voltage)

Optional extras include: Knob, Dial, Heatsink compound.



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Date 11/11/99

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