



VARIABLE AC REGULATOR WITH RFI SUPPRESSION

QVR-RFI-TB
QVR/s-RFI-TB

X10250

INTRODUCTION

These variable phase-angle power regulators are robust and compact units for controlling single-phase mains-driven loads. They give a 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 which will aid product compliance when correctly installed.

APPLICATIONS

These would be suitable for most quartz lamps and conventional resistive-heating elements. They may be connected in series or parallel configurations. Applications include: ovens, moulders, dryers and some inductive loads (e.g. transformers and motors).

FEATURES

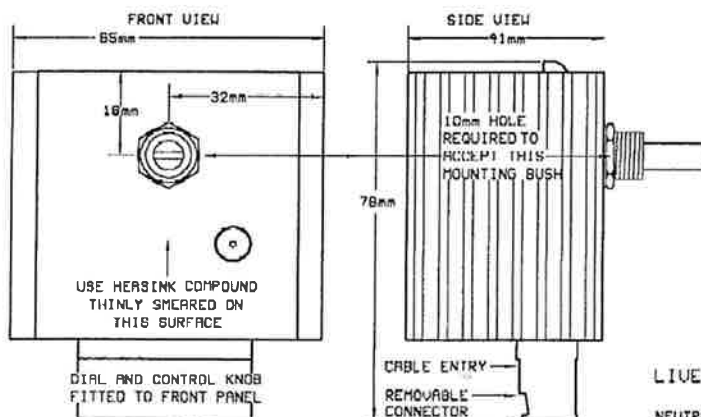
- Integrated RFI network.
- On/Off switched version (QVR/s).
- Plug-in power connector block.
- Single-hole mounting.
- Rugged and compact.
- Designed to maximise thermal dissipation.



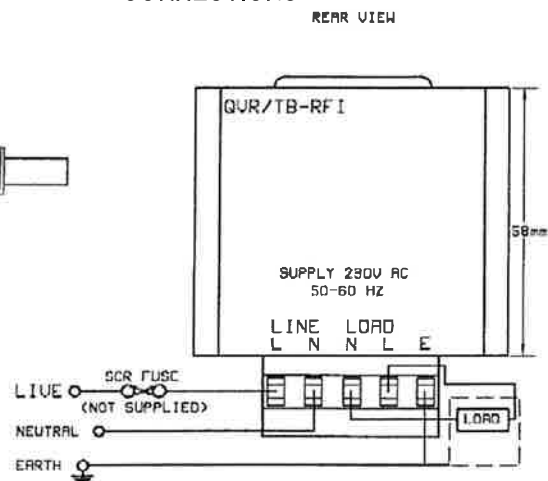
RoHS Compliant

INSTALLATION

DIMENSIONS



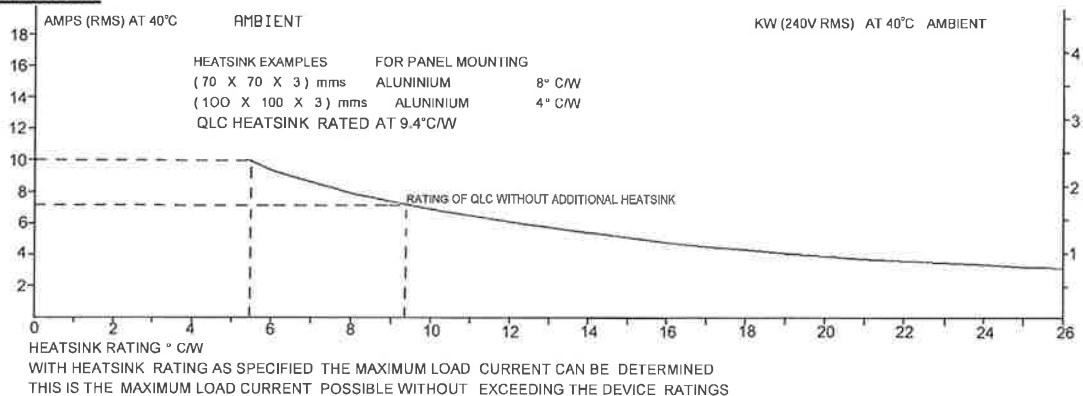
CONNECTIONS



WARNING
LIVE TERMINALS - SWITCH OFF SUPPLY BEFORE COMMENCING ANY SERVICE WORK

NOTE
FOR HEATSINK PANEL MOUNTING A 10mm HOLE IS REQUIRED TO ACCEPT MOUNTING BUSH.
HEATSINK COMPOUND MUST BE USED FOR EFFECTIVE THERMAL COUPLING.

INSTALLATION



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	Isolation voltage	2500V RMS
320A	I^2t limiting value for fusing	112A ² s
200mA	Unit limiting RMS. On state current	15A
1.5V	Mains supply tolerance, +/- 10%	230V or 110V AC
10A	Mains frequency	50/60Hz
65°C	Unit storage temperature range 0 TO +65°C	

Further dimensions

Shaft diameter	6.3mm	Shaft projection from bush	12mm (QVR) & 8mm (QVR/s)
Bush length (QVR & QVR/s)	7mm	Fixing hole diameter	10mm

FUSING

It is recommended to use semiconductor (fast-acting) type fuses or circuit breakers (semiconductor - MCB) for protection. On initial power-up some loads may need an increased factor of safety 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 built-in filter. For information see recommendation section and contact our sales desk or see Declaration of Conformity.

RECOMMENDATIONS

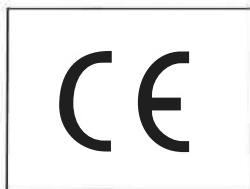
Other documents available on request, which may be appropriate for your application: -

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, earthing requirements and fusing recommendations.
P01.1	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.T. (formerly I.E.E.) regulations (BS7671) by suitably qualified/trained personnel. The regulations contain important requirements regarding installation and safety of electrical equipment. Specific installers should refer to local and national regulations.

ORDER CODE:

State part number: Non switched QVR-RFI-TB + (Supply voltage)
 State part number: Switched QVR/s-RFI-TB + (Supply voltage)
Optional extras include: knob, dial, heatsink compound.



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