

VARIABLE AC REGULATOR UP TO 17A WITH RFI SUPPRESSION

QVR/RFI 17A QVR-s/RFI 17A

X10299

INTRODUCTION

These variable phase angle power regulators are robust and compact units for 230V, up to 17A, 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 which will aid product compliance when correctly installed.

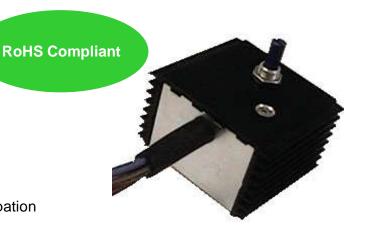
APPLICATIONS

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

FEATURES

- Integrated RFI network.
- ON/OFF switched version (QVRS)
- Infinitely variable 0-98% output.
- Single hole fixing.
- Rugged and compact
- Designed to maximise thermal dissipation

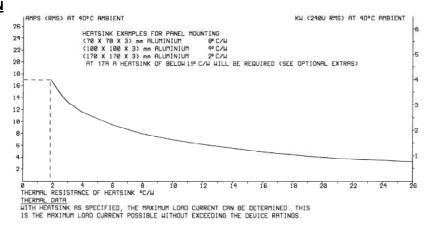
HERTSINK COMPOUND MUST BE USED FOR EFFECTIVE THERMAL COUPLING



INSTALLATION

CONNECTIONS AND DIMENSIONS REAR UIEW FRONT VIEW SIDE VIEW 41mm QUR/TB-RFI 17A HOLE REQUIRED TO USE HERTSINK COMPOUND THINLY SMEARED ON THIS SURFACE SUPPLY 230U BC CABLE SLEEVE-50-60 HZ SCR FUSE (NOT SUPPLIED) LIVE 36mm NEUTRAL O EARTH (OREEN/ YELLOH) WARNING NEUTRAL O LIVE TERMINALS - SHITCH OFF SUPPLY BEFORE COMMENCING ANY SERVICE WORK FOR HEATSINK PANEL MOUNTING A 10MM HOLE IS REQUIRED TO ACCEPT MOUNTING BUSH.

INSTALLATION



SPECIFICATIONS

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Triac limiting rms on state cycle	25A	Isolation voltage	2.5kV rms
Peak one cycle surge @ (10mS)	320A	I ² t limiting value for fusing	112A ² s
Max forward volts drop at 10A	1.5V	Mains supply tolerance, within 10%	230V/110V ac
Max load at 20°C ambient (without extra heatsink)	10A	Max recommended unit temperature	65°C
Mains frequency	50/60H	z Max recommended unit temperature	0-85°C

FURTHER DIMENSIONS

Shaft diameter 6.3mm Shaft projection from bush 13mm/SW 8mm Bush length 5mm Fixing hole diameter 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 datasheet 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, 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.
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. (formally 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 17A + (Supply voltage)

State part number: switched QVR/s-RFI 17A + (Supply voltage)

Optional extras include: knob, dial, heatsink paste.



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