

VARIABLE REGULATOR FOR QUARTZ LAMPS OR RESISTANCE HEATERS

QVR & QVR/S

X10207

DESCRIPTION

These variable phase angle powerful regulators are robust, compact and enclosed units for 230V or 110V up to 15A single phase mains driven loads. They give fully adjustable voltage outputs from zero to maximum, The large Triac enables the unit to handle high inrush currents with ample safety margin on industrial installations. An adhesive backed silver label and hairline knob, are optional extras, for front panel mounting.

APPLICATION

Suitable for quartz lamps, or conventional resistive heating elements in single, series or parallel configurations to the specified voltage, current and temperature limits. Applications include ovens, moulders, dryers and some inductive loads, for example transformers and motors.

FEATURES

- Infinitely variable 0-98% output.
- ON/OFF switched version (QVR/s)
- Single hole fixing.
- Rugged and compact.
- Large triac for inrush protection.
- High surge option.

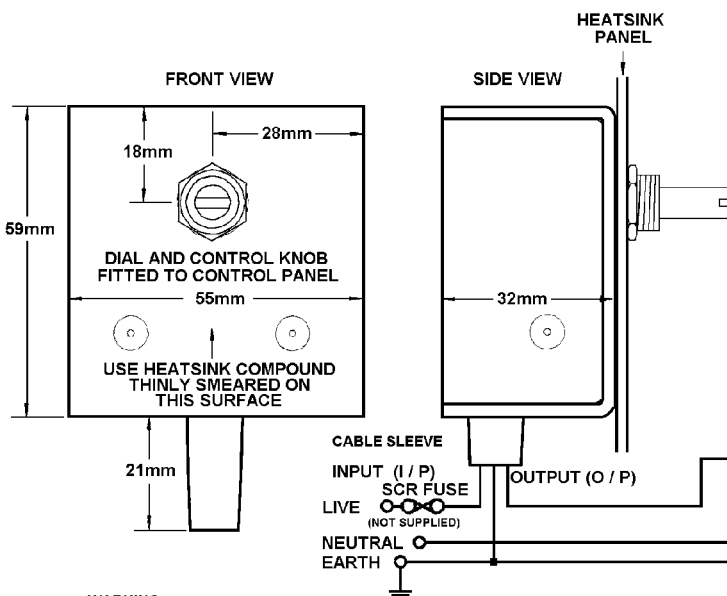
**RoHS Compliant
Directive
2002/95/EC**



QVR shown

INSTALLATION

DIMENSIONS AND CONNECTIONS



MAIN OPTIONS

UAL CODE	DESCRIPTION	I / P WIRE COLOURS	O / P
A12201	QVR-240/STD	BROWN	RED
A12204	QVR-240/HS	BROWN	ORANGE
A12209	QVR-240/110	BROWN	WHITE
A12112	QVR-110/110	BROWN	YELLOW
A12115	QVR-110/110HS	YELLOW	ORANGE
UAL CODE	DESCRIPTION	I / P WIRE COLOURS	O / P
A13202	QVR/S-240/STD	BROWN	RED
A13205	QVR/S-240/HS	BROWN	ORANGE
A13210	QVR/S-240/110	BROWN	WHITE
A13113	QVR/S-110/110	BROWN	YELLOW
A13116	QVR/S-110/110/HS	YELLOW	ORANGE

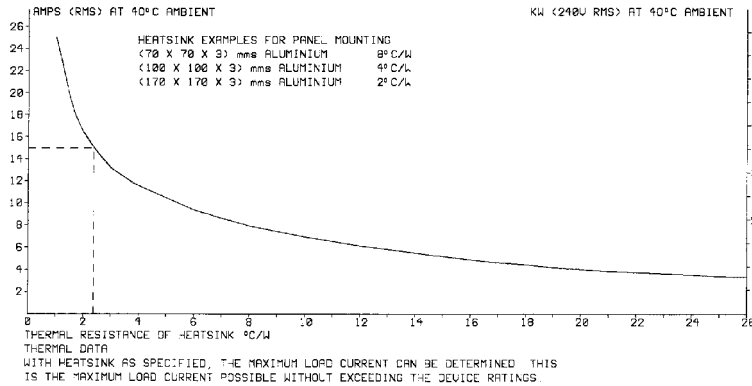
**LEAD LENGTH NOMIALLY 420mm
EARTH LEAD GREEN/ YELLOW**

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
 USE HEATSINK COMPOUND FOR EFFECTIVE THERMAL COUPLING

INSTALLATION

COOLING REQUIREMENTS



SPECIFICATIONS

Maximum RMS on-state current	15A
Minimum operating current	200mA
Triac limiting RMS on state current	25 A
Peak one cycle surge @ 10mS	250 A
Peak one cycle surge HS model @ 10mS	300 A
I ² t for fusing	112 A ² s
Isolation voltage	2500V rms
Maximum recommended unit temperature	70°C
Maximum cable temperature	105°C
Maximum recommended unit load at 20°C ambient, (without extra heatsink)	10 A
Maximum recommended unit load at 40°C ambient, (without extra heatsink)	5 A
Mains supply +/-10% @ 50/60Hz	110 or 230V ac

FUSING:

It is recommended to use semiconductor (fast acting) type fuses or circuit breakers (Semiconductor - MCB) for unit protection. On initial 'switch on' some loads may need an increased Factor of Safety (F of S) for unit and/or device protection. (See the 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 the 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 (LVD)	Safety requirements - addressing the Low Voltage Directive 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: (See main option chart)

Non switched QVR 230V ac or 110V ac

Switched QVR/S 230V ac or 110V ac

Optional extras include: High surge; Various output; F-series Filter (current at which unit is to be used will be required), Standard knob; QVR dial; Heatsink compound.



UNITED AUTOMATION LIMITED

1 Southport Business Park
Kew
Southport, PR8 4HQ
ENGLAND

Tel: 0044 (0) 1704 – 516500 Main
Tel: 0044 (0) 1704 – 516516 Sales
Fax: 0044 (0) 1704 – 516501
Enquiry@united-automation.com
www.united-automation.com

Page No. 2 of 2 Issue 4

Date 29/04/02



This document was created with Win2PDF available at <http://www.daneprairie.com>.
The unregistered version of Win2PDF is for evaluation or non-commercial use only.