



# PHASE ANGLE ELECTRONIC HEAT SWITCH UP TO 15A

**QLC**

**X10206**

## INTRODUCTION

The switchable phase-angle power regulator is a robust and compact unit, ideal for controlling single-phase mains-driven loads. The standard QLC units are for 230V supply, with a three position and off control switch. The large triac enables the unit to handle high in-rush currents with ample safety margin on industrial installations.

## APPLICATIONS

This unit is suitable for quartz lamps and conventional resistive-heating elements in series or parallel configurations. Applications include: ovens, moulders, dryers and some inductive loads (e.g. transformers and motors).

## FEATURES

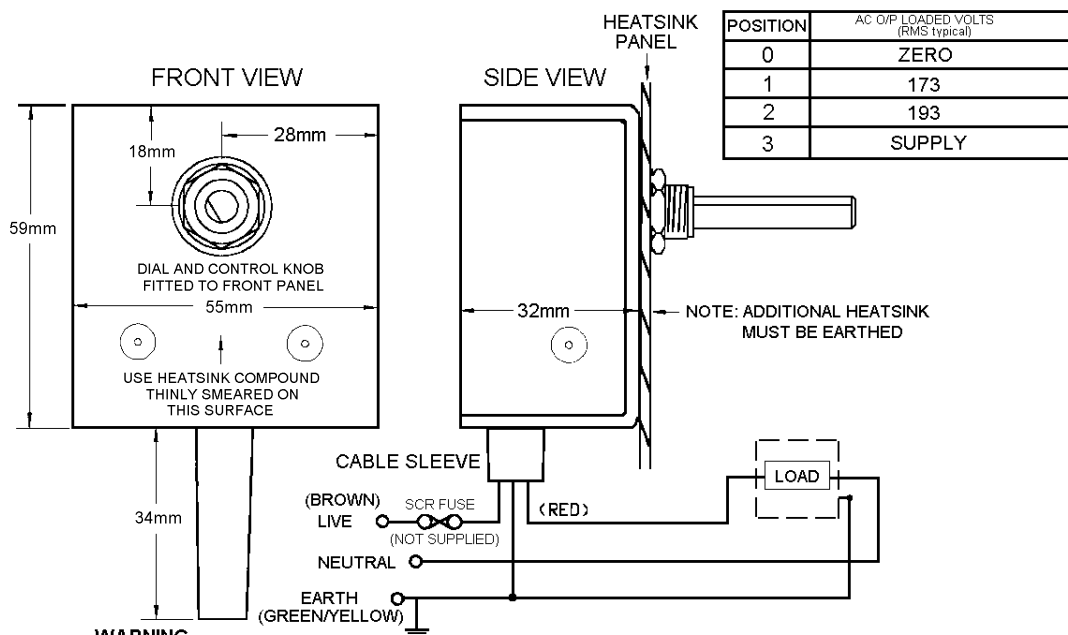
- Large triac for inrush protection.
- Three position and off control.
- Single-hole fixing.
- Rugged and compact.



**RoHS Compliant**

## INSTALLATION

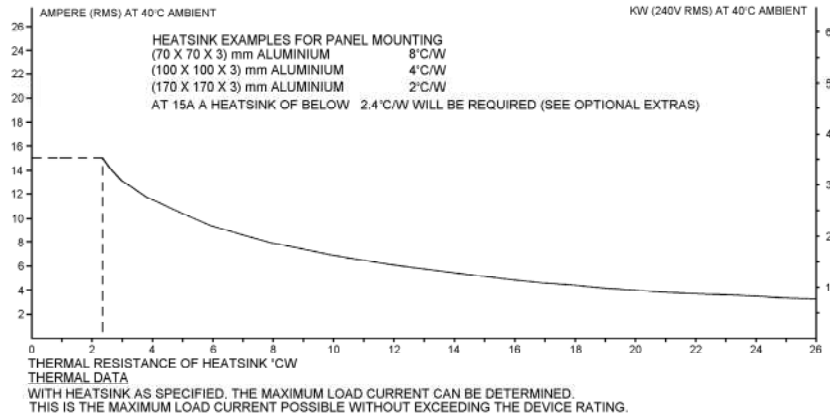
### CONNECTIONS AND DIMENSIONS



### WARNING

LIVE TERMINALS - SWITCH OFF SUPPLY BEFORE COMMENCING ANY SERVICE WORK.  
FOR HEATSINK PANEL MOUNTING  
A 10mm HOLE IS REQUIRED TO ACCEPT MOUNTING BUSH.  
USE HEATSINK COMPOUND FOR EFFECTIVE THERMAL COUPLING.

## INSTALLATION



## SPECIFICATIONS

Triac limiting rms on state current	26A	Isolation voltage	2500V rms
Unit limiting rms on state current	15A	I <sup>2</sup> t limiting value for fusing	112A <sup>2</sup> s
Peak single cycle surge @ 10mS	320A	Mains supply ( within 10%)	230V ac @ 50/60 Hz
Max load at 20°C ambient (without extra heatsink)	10A min	operating current	200mA
Max unit operating temperature	65°C	Unit storage temperature range	-20 to +85°C

## FURTHER DIMENSIONS

Shaft diameter	6.3mm	Shaft projection from bush	30mm
Bush length	5mm	Standard cable length	400mm

## FUSING

It is recommended to use semiconductor (fast-acting) type fuses or circuit breakers (semiconductor-MCB) for protection. On initial use some loads may need an increased factor of safety for unit and/or device protection (see SRA datasheet 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 are 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 and 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: QLC 230V AC  
 Optional extras include: heatsink paste, filter.  
 Note: When ordering a filter the maximum current the QLC is to be used at will be required



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Page No. 2 of 2      Issue 3      Date 31/07/12



