



PHASE ANGLE ELECTRONIC HEAT SWITCH WITH RFI SUPPRESSION

QLC-RFI-TB-E

X10503

INTRODUCTION

These switched phase angle power regulators are robust and compact units ideal for controlling single phase mains driven loads. The standard QLC units are for 230V supply, with an integral three position and off control switch with wiring connections to the plug-in five way terminal. The large triac enables the unit to handle high inrush current with ample safety margins 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 single phase, series or parallel configurations to the specified voltage, current and temperature limits and inductive loads, for example, transformers and motors.

FEATURES

- Integral RFI (Filtering) network.
- Plug in power connector block.
- Single 10mm hole mounting bush fixing.
- Designed to maximise thermal dissipation.
- 15A(Max) rating with suitable panel mounting
- 'E'-model complete with Knob and Dial

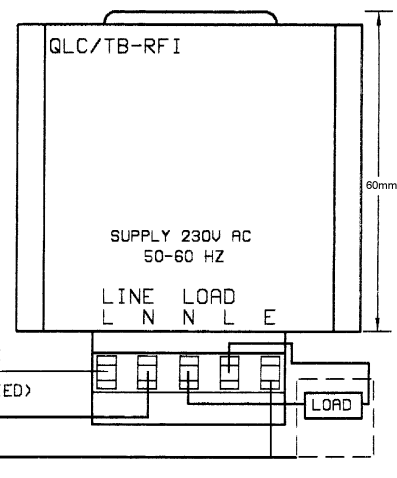
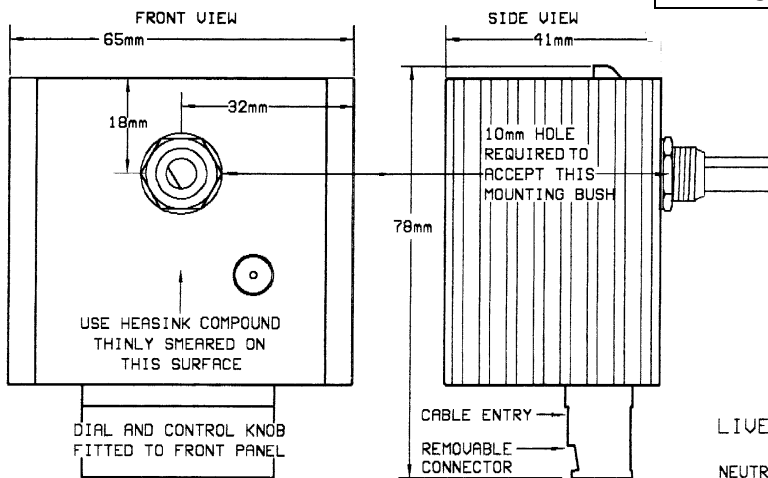
RoHS
Compliant
Directive



INSTALLATION

DIMENSIONS, WIRING CONNECTIONS & OUTPUTS

POSITION	AC O/P LOADED VOLTS (RMS typical)
0	ZERO
1	173
2	193
3	SUPPLY



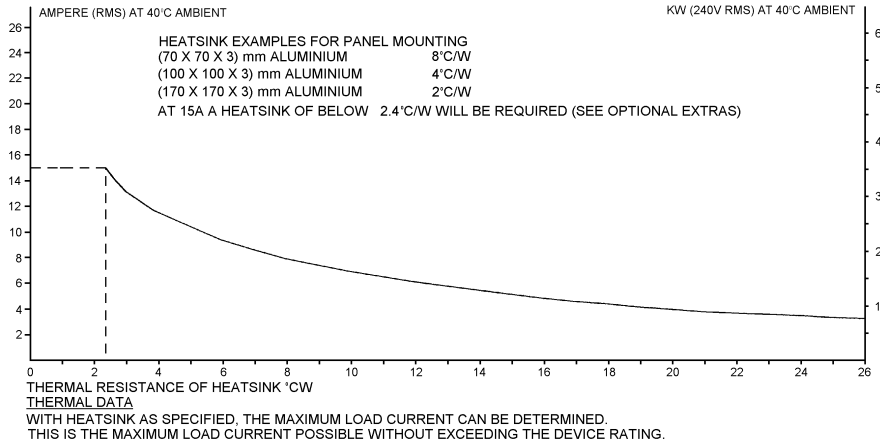
WARNING

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 AND DIMENSIONS

Unit limiting RMS, On state current	15A	Maximum forward voltage drop at 10A	1.5V
Triac Limiting RMS, On state current	25A	Peak one cycle surge @ (10ms)	320A
Mains supply, tolerance, within 10%	230V ac	I ² t limiting value for fusing	112A ² s
Isolation voltage	2500V rms	Mains frequency	50/60Hz
Max recommended operational temperature	65°C	Max recommended storage temperature	65°C
<i>Dimensions approximate</i>			
Shaft diameter	6.3 mm (1/4")	Bush length	5 mm
Shaft projection from bush	30 mm	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 Data sheet for further information.

CE MARKING

This product family carries a "CE" marking and incorporates a filter. (Standard type to emission levels BS EN 55022 Class A – Industrial) to address the EMC directive. For more information see recommendations 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 (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: QLC-RFI-TB-E-230V (Other voltage inputs and outputs available)

Optional extras include: Heatsink compound (conductive bonding paste)



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