

MULTI-MODE MAINS CONTROLLER BURST FIRED OR PHASE ANGLE

MPC34A

X10641

INTRODUCTION

The MPC34A provides accurate and precise mains control in both burst fire or phase angle control modes of operation. This printed circuit board firing circuit is capable of driving an external triac or thyristor pair power devices for any load rating. Additional features also include a 5V power reference for external use, non committed comparator or amplifier, an auxiliary output for driving contactors and an industry standard selection of signal control options for local or remote supply signals.

APPLICATIONS

Virtually all resistance heaters including ovens, electric furnaces, moulders, dryers, smelters, heating tapes, stress relieving, space heating and heating mantles. This is unsuitable for use on inductive loads.

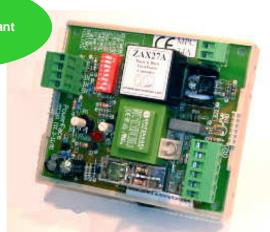
MAIN FEATURES

RoHS Compliant

– Dual mode control capability.

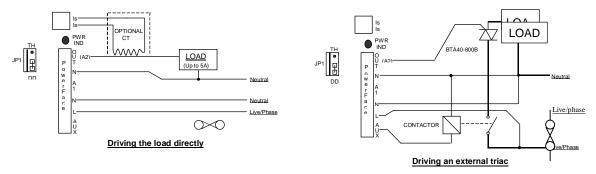
(phase angle or burst fire)

- Soft start delay function
- Output overload protection
- Output over temperature protection
- Adjustable time base in burst fire mode
- 5kV input and supply isolation



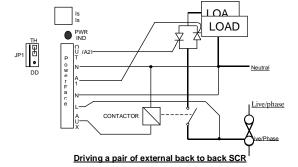
INSTALLATION

Connections



WARNING

- 1. This unit requires fusing.
- 2. All HAZARDOUS LIVE terminals isolate supply before commencing any installation work.



SPECIFICATIONS

High voltage side Mains voltage	240V ac ± 10% @ 50Hz	Low voltage side Supply voltage	5V
Supply current	30mA (max.)	Supply current	30mA (max.)
Max. rms load current	5A (max.).	Control input range	0 to 1V or 0 to 5V
Load power range	10W (min.); 1kW (max.)	Inhibit high logic	>4V
Over temp. shut down	90°C	Inhibit low logic	<3V
Over temp. reset	60°C	Supply voltage rejection	0.5%/V
Isolation classification	Class II	Temperature coefficient	≤0.25%/°C
Max. cable entry	2.5mm ²	Operating temperature	0 to +65°C
Dimensions (max.)	56(H) x 116(W) x 97mm (D)	Mounting/ fastening	DIN rail (TS35 & TS32)

FUSING:

A semiconductor (fast acting) type fuse is supplied as standard 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. For spares or replacements contact our sales desk.

CE MARKING

This product family carries a "CE marking". These phase angle controllers need a suitable remote filter. For information see recommendation section and contact our sales desk.

RECOMMENDATION & SAFETY REQUIREMENTS

Other documents available on request, which may be appropriate for your applications.

CODE	IDENTITY	DESCRIPTION
X10229	RFI	Filtering recommendation - addressing EMC Directive
X10213	ITA	Interaction, uses for phase angle and for burst fire control.
X10255	SRA	Safety requirements - addressing the Low Voltage Directive
		including: Thermal data/cooling; "Live" parts warning & Earth
		requirements; Fusing recommendations.
X20009		MPC34A operating manual
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: MPC34C



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