



MANUAL PHASE ANGLE TRIAC TRIGGER MODULE

MAT

X10224

INTRODUCTION

The MAT is a variable phase-angle triac trigger module. It is a compact, safe and tamperproof unit capable of driving all typical triacs on 230/110V ac regulator circuits. The unit has a manual control potentiometer and minimum output trimmer built in a industrial panel mounting enclosure.

APPLICATIONS

Suitable for most ac resistive or inductive loads via a triac, on single phase to neutral supplies, within voltage limits.

FEATURES

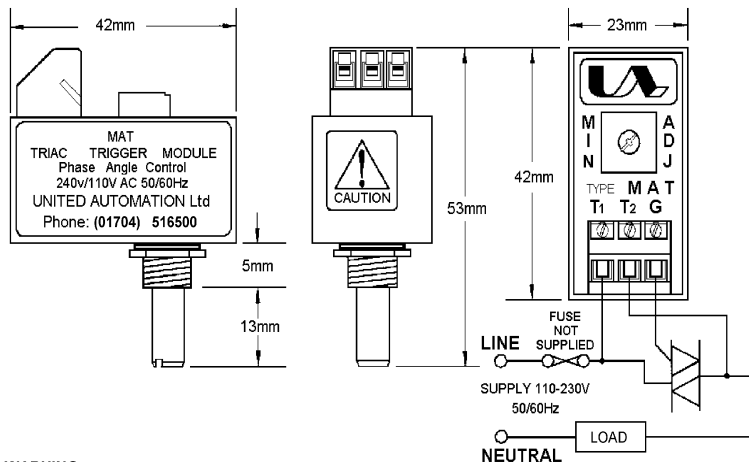
- Compact and easy to use
- Solid state reliability
- Single hole panel mounting
- Minimum offset
- Highly efficient



RoHS Compliant

INSTALLATION

DIMENSIONS AND CONNECTIONS



WARNING

LIVE TERMINALS: SWITCH OFF MAINS SUPPLY BEFORE COMMENCING ANY SERVICING WORK.

SPECIFICATIONS

ac system line voltage	110/230V ± 10%
Line frequency	50/60Hz
Minimum offset at 110V	0-50%
Minimum offset at 230V	0-50%
Conduction phase angle typical	0-160°
Controlled phase angle typical	30-160°
Isolation voltage	2500V rms
Maximum leakage current	6mA
Storage temperature	0-85°C
Operating temperature	0-65°C
Mounting hole diameter	10mm

FUSING

It is recommended to use semiconductor fast acting type fuses or circuit breakers (Semiconductor-MCB) for unit/device 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 controllers need a suitable remote filter. For information see recommendation section and contact our sales desk. (See Declaration of Conformity).

RECOMMENDATION

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

CODE	IDENTITY	DESCRIPTION
X10229	RFI	Filtering recommendation - addressing EMC directive.
X10213	IT	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.
X10378	ILR	Inductive loads remedy sheet for use with Phase angle controllers
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: MAT.

Optional extras include triac, heatsink assembly.



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