



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 an inclusive manual control potentiometer and minimum output trimmer built in an industrial panel mounting enclosure.

APPLICATIONS

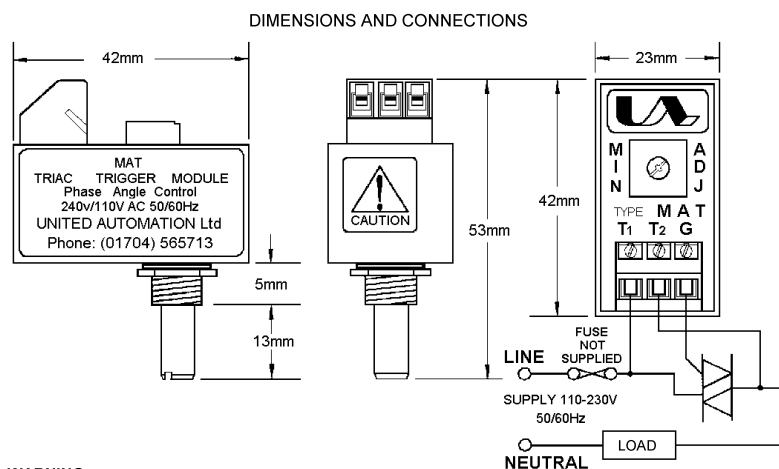
Suitable for most ac resistive or inductive loads via a triac, on single phase to neutral supplies, within voltage limits.

FEATURES

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



INSTALLATION



WARNING

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

SPECIFICATIONS

| | |
|--------------------------------|------------------|
| AC 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 to 160° |
| Controlled phase angle typical | 30 to 160° |
| Isolation voltage | 2500V rms |
| Max Leakage current | 6mA |
| Storage temperature | -20 to 85°C |
| Operating temperature | 0 to 65°C |
| Mounting hole diameter | 10mm |

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 SRA Data sheet 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 Declaration of Conformity).

RECOMMENDATION

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

| CODE | IDENTITY | DESCRIPTION |
|-------------|-----------------|--|
| X10229 | RFI | Filtering recommendation - addressing the 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 & Earthing 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: MAT.
Optional extras include: Triac, SCR, Fuses, Heatsink assembly.



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