

SPECIFICATIONS

I ² t for fusing 10ms	250 A ² s	Min line voltage	5V ac
Max, transient over volts	1200V ac	Max line voltage	440V ac
Max electrical isolation	3500V	Control signals	0-5V dc & 4-20mA
Power consumption	1.2 watts	Operating frequency	50 to 60 Hz +/- 5%
Max load current @ 65°C	25A	Supply voltage	10-18V ac
Min load current @ 65°C	0.05A	Peak one cycle surge	250A
Man. control potentiometer	5K	Max operating temp	0°C to 65°C
Power Terminals	M4 X 10mm	Max storage temp	0°C to +85°C

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 the 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	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 & 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 I.E.C. 950).

ORDER CODE:

State part number: Stom1.

Optional extras include: Potentiometer, Supply Transformer, Heatsink compound, Filter.



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MICROPROCESSOR BASED 25A AC POWER CONTROLLER

STOM1

X10223

DESCRIPTION

The STOM1 is a microprocessor based power controller, with a built in power device that is capable of controlling up to 25A at voltages up to 440V ac. The STOM1 has two types of power control, Phase Angle and Burst Firing, either can be selected separately. The module can also be used for soft starting in Phase Angle mode and it will automatically switch to Burst Fire mode when the control signal has reached a preset level. The control will remain in the Burst Fire State even if the input signal drops below the preset level. The STOM1 also has a ramp up from cold, which can be set from 0 to 30 seconds. The controller will operate from a 0 to 5V dc or 4 to 20mA signal, these signal inputs are fully isolated and can be controlled from a Temperature Controller or PC etc. The STOM1 provides the equipment designer with flexibility in a wide range of applications.

APPLICATIONS

Suitable for most resistive loads including ovens, moulders, and dryers with current ratings up to 25A when fitted onto a suitable heatsink (1.3°C/W). Ideal for unusual heating loads which have very low resistance when cold.

FEATURES

Energy saving
Simple wiring
Isolated inputs

Soft start facility
Standard 80mm fixing
Rugged and compact

Phase angle or Burst firing
Solid state reliability
Integrated Power Device

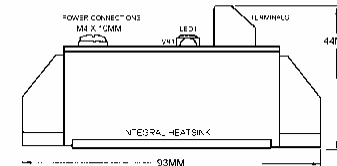
INSTALLATION

NOTE

THE STOM1 AC POWER CONTROLLER SHOULD BE MOUNTED ON A CLEAN OR UNPAINTED METAL THERMALLY CONDUCTIVE SURFACE. USING HEAT SINK COMPOUND THINLY APPLIED BETWEEN THE CONTROLLER AND THE MOUNTING PLATE

IN ORDER TO COMPLY WITH THE CURRENT EMC DIRECTIVE WHEN USING IN PHASE ANGLE MODE A LINE FILTER MUST BE USED.

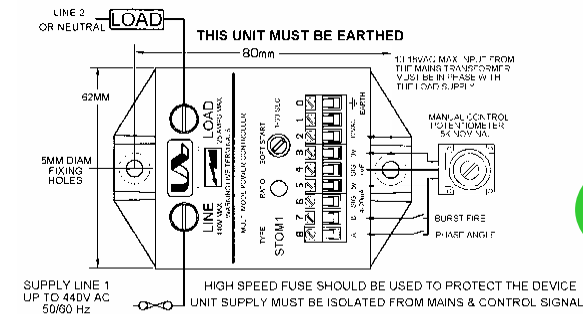
DIMENSIONS



CONTROL OPTIONS

- DC INPUT
- VOLTAGE CONTROL TERMINALS 3,4 AND 5
- 3 = 0V
- 4 = 0 TO 5V
- 5 = 5V OUTPUT
- 5K INPUT
- CURRENT CONTROL TERMINALS 3 AND 5
- 3 = 0V
- 5 = 4-20mA
- 240R INPUT
- MODE A PHASE ANGLE
- TERMINAL A AND 5
- A = 5V
- B = 5V
- MODE B BURST FIRE
- TERMINALS B AND 5
- B = 5V
- 5 = 5V
- MODE A AND B START IN PHASE ANGLE SWITCHING TO BURST FIRE
- TERMINAL A, B AND 5
- A = 5V
- B = 5V
- 5 = 5V
- PHASE REFERENCE AND SUPPLY TERMINALS 1 AND 2
- 10V TO 18V AC AT 75 mA

WIRING AND CONNECTIONS



WARNING

SWITCH OFF SUPPLY BEFORE COMMENCING ANY SERVICING WORK

RoHS Compliant
Directive
2002/95/EC