

3 PHASE BURST FIRING 0-40°C / 0-150°C TEMPERATURE CONTROLLER

BMT-3A

X10298

INTRODUCTION

This microprocessor based dual range temperature control module incorporates the unique MONO-LINKTM - Gate to Gate firing feature which uses single path hard firing for each phase thyristor pair eliminating cathode firing connections. The burst firing circuit prevents fast changes in load current thus inhibiting Radio Frequency Interference.

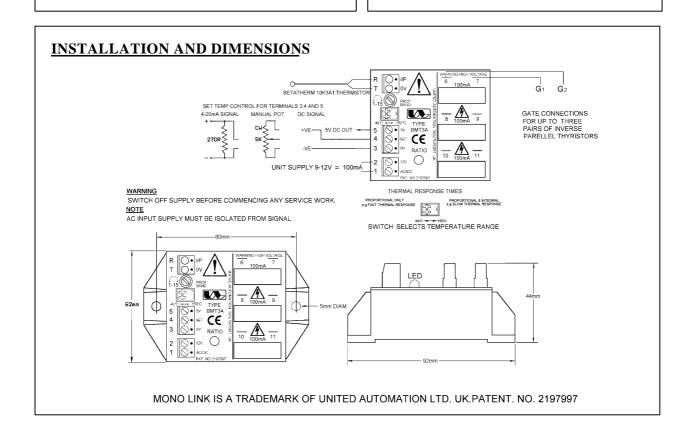
APPLICATIONS

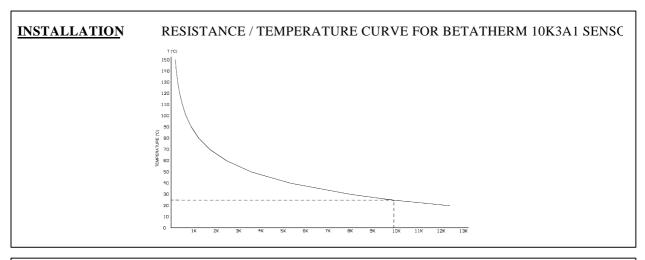
Virtually all resistive heater load, (within temperature limitations) including air curtains, space heating, drying and other heating and ventilating applications.

FEATURES

- Zero volts switching (RFI free).
- MONO-LINK™ Gate to Gate firing
- Power ratio indicator.
- No phase timing or matching required.
- Temperature feedback via thermistor.
- Dual temperature range.







SPECIFICATIONS			
Set Temperature pot	5K	Temperature control options	0-40°C or 0-150°C
Thermistor 10K3A1	0-150°C	Input supply	10 to 18V ac/dc @
100mA			
Cycle time base	1s nominal	Line voltage	110V to 440V +/-10%
Trigger output I max	800mA	Line frequency	50/60 Hz
Isolation voltage	5KV	Integral gate fuses	F100mA ceramic (HRC)
Unit operating temp	0 to 65°C	Max. Peak voltage	600V
Unit storage temp	-20 to 85°C	Prop band	1-15%

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 unit protection. Appropriate protection for unit supply (HRC F1A). See SRA Datasheet for further information

CE MARKING

This product family carries a "CE marking". 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	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 the	et installation and maintanance of this aguinment should be done with refer	

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: BMT-3A.

 $Optional\ extras\ include:\ Supply\ transformer,\ Power\ stack,\ Betatherm\ 10K3A1\ thermistor.$



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