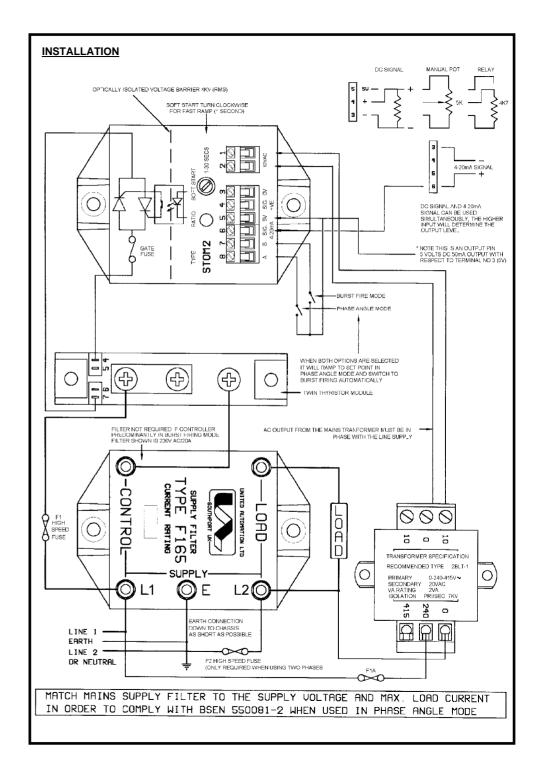
## INSTALLATION G1 G2 6mm PUSH ON CONNECTIONS LED1 WEIGHT APPROX 130 GRAMMES 80mm 10-12VAC MAX INPUT FROM THE MAINS TRANSFORMER MUST IN PHASE WITH THE LINE 62mm AND LOAD SUPPLY 20 1 | | | | | | | | MANUAL CONTROL POTENTIOMETER 5K NOMINAL 20mm 6 5 4 3 5mm DIAM FIXING HOLES $\bigcirc$ LO. 8 0 0 BURST FIRE STOM PHASE ANGLE 딦 DUAL THYRISTOR PACK LINE 1 4 (<del>1)</del> $\oplus$ MODE A PHASE ANGLE PHASE REFERENCE AND CONTROL OPTIONS SUPPLY TERMINALS 1 AND 2 DC INPUT TERMINAL A AND 5 VOLTAGE CONTROL ☐ 10V TO 18V AC AT 75 mA □ A = 5V TERMINALS 3,4 AND 5 **OUTPUT CONNECTIONS G1, G2** □ 5 = 5∨ ☐ 3 = 0V ☐ UP TO 440V ac MAX MODE B BURST FIRE ☐ 4 = 0 TO 5V TERMINALS B AND 5 ☐ 50 TO 60 Hz +/- 5 ☐ 5 = 5V OUTPUT □ B = 5V ☐ GATE CURRENT 1A MAX ☐ 5K INPUT □ 5 = 5V CURRENT CONTROL MODE A AND B START IN TERMINALS 3 AND 6 PHASE ANGLE SWITCHING □ 3 = 0V TO BURST FIRE ☐ 6 = 4-20mA TERMINAL A,B AND 5 ☐ A = 5V ☐ 240R INPUT □ B = 5V □ 5 = 5V **WARNING** SWITCH OFF SUPPLY BEFORE COMMENCING

# ANY SERVICE WORK



# **SPECIFICATIONS**

Min line voltage 5V ac Trigger output rating 1A

Max line voltage 440V ac Power consumption 1.2 watts

50 to 60 Hz +/- 5% Mono-link fuse F100mA (HRC) Operating frequency

Max electrical isolation 4000V ac Soft start 1-30 sec

10 - 18V ac @ 75mA AC input supply Auxiliary output 5V dc

Storage temp range -20°C to 85°C Control signals 0-5V dc & 4-20mA

Max operating temp 0°C to 65°C Gate terminals 6.3mm x 0.8mm

# **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).

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 Filtering recommendation - addressing EMC directive. RFI ITA Interaction, uses for phase angle and for burst fire control. X10213 X10255 SRA Safety requirements - addressing the Low Voltage Directive (LVD) including:-Thermal data/cooling; "Live" parts warning

& Earth requirements; Fusing recommendations.

cos UAL Conditions of sale AP02/4

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: Stom2.

Optional extras include: Potentiometer, Supply Transformer, Thyristor module, Filter.



# **UNITED AUTOMATION LIMITED**

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> www.united-automation.com Date 26/06/01

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# MICROPROCESSOR BASED **10V TO 440V DUAL MODE TRIGGER MODULE**

# STOM<sub>2</sub>

X10245

### DESCRIPTION

The STOM2 is a microprocessor based trigger module capable of driving most power thyristors. The STOM2 has two modes of triggering control. Phase angle and Burst firing either can be selected seperately. The module can also be used for soft starting in Phase angle and it will automatically switch to Burst fire mode when the control signal has reached a preset level. The STOM2 has a soft start from power up which can be set from 0-30 seconds. The signal inputs are fully isolated operating from either 0-5V dc or 4-20mA accepting signals from temperature controllers, manual potentiometer, microprocessors etc.

### **APPLICATIONS**

Suitable for most resistive and inductive loads including ovens, moulders, and dryers Ideal for unusual heating loads which have very low resistance when cold.

# **FEATURES**

Energy saving Soft start facility Phase angle or Burst firing Standard 80mm fixing Solid state reliability Simple wiring Isolated inputs Load status indicator Rugged and compact

# **INSTALLATION**

**RoHS Compliant** Directive 2002/95/EC



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