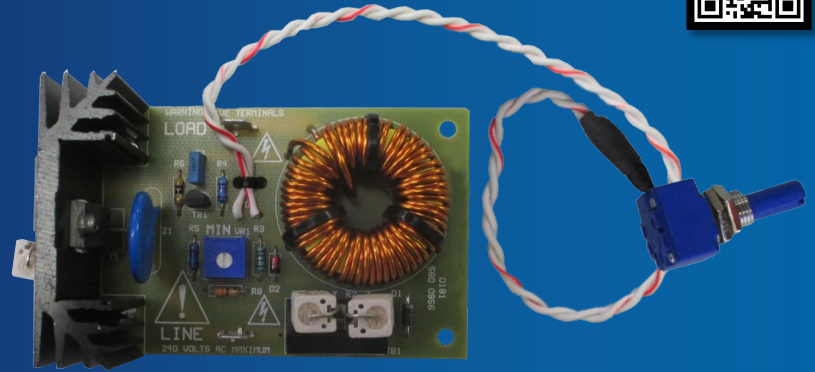


X10345

HALF WAVE VIBRATOR CONTROLLER | SINGLE PHASE

# UV6/D

110V, 230V



## CONTACT US:

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✉ enquiries@united-automation.com

🌐 www.united-automation.com

## KEY FEATURES:

- ✓ **Solid-State Reliability:** Ensures long-lasting, dependable performance.
- ✓ **Dual Voltage Compatibility:** Operates on both 110V and 240V AC supplies.
- ✓ **Simple Wiring:** Easy 2-wire connection plus Earth for hassle-free installation.
- ✓ **Adjustable Minimum Output:** Fine-tune the output to meet specific requirements.
- ✓ **Energy Saving:** Efficient design to reduce energy consumption.

## APPLICATIONS:

Ideal for controlling **vibrator coils**, the UV6D offers precise and reliable control in various industrial applications.

The **UV6D** is a single-phase half wave controller designed with an integral 10A device, capable of operating on both 110V and 240V inputs. With its straightforward 2-wire connection plus Earth, this PCB is engineered for easy installation. The output is adjustable using a 25K potentiometer, with a cermet on the PCB to fine-tune minimum settings as needed.

The **UV6D Half Wave Controller** PCB is designed for those who demand robust, reliable, and efficient control for their industrial applications, particularly in managing the operation of vibrator coils.

## TECHNICAL SPECIFICATIONS

|  |                                |
|--|--------------------------------|
| <b>Supply</b>                          | 110 or 230V AC ± 10% @ 50/60Hz |
| <b>Unit RMS Current Rating</b>         | 6A                             |
| <b>Peak Single Cycle Surge Current</b> | 100A                           |
| <b>Thyristor Limiting RMS Current</b>  | 10A                            |
| <b>L<sup>2</sup>t for Fusing</b>       | 18A <sup>2</sup> s             |
| <b>Maximum Peak Voltage</b>            | 600V                           |
| <b>Minimum Operating Current</b>       | 200mA                          |
| <b>Storage Temperature Range</b>       | 0-85°C                         |
| <b>Operating Temperature</b>           | 0-65°C                         |

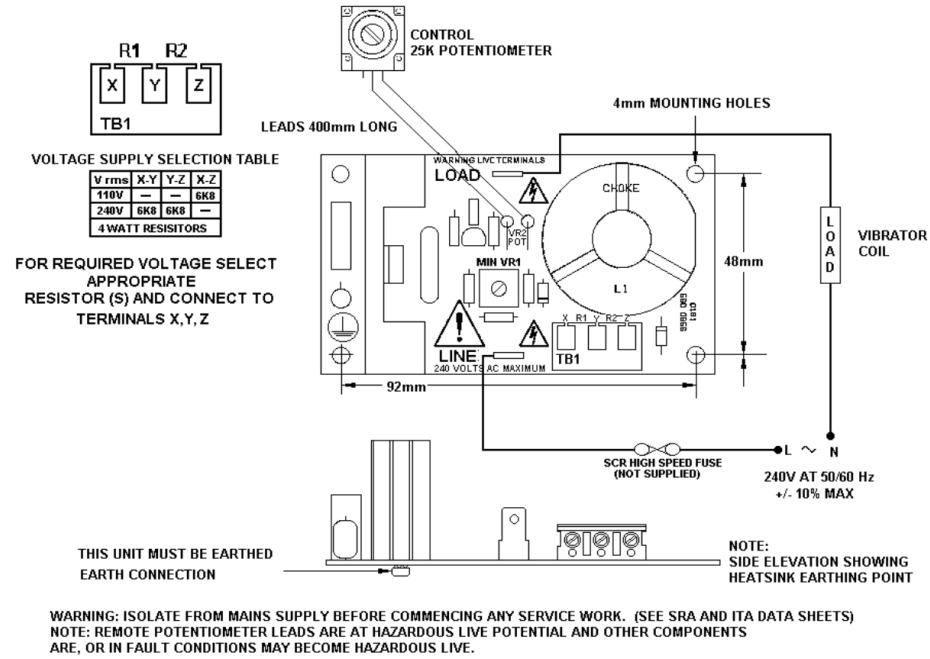
### YOU MUST READ THIS BEFORE INSTALLATION

|  |   |  |   |  |
|--|---|--|---|--|
| <p><b>⚠ ELECTRICAL SAFETY</b></p> <p><b>WARNING: RISK OF ELECTRIC SHOCK</b><br/>Always consult the Installation &amp; Maintenance Instructions before connecting this product to the power supply.</p> <p><b>WARNING: Disconnect Power Before Servicing</b><br/>Ensure the electrical supply is safely disconnected before connecting to any supply, load, or control terminals.</p> | <p><b>🔧 INSTALLATION REQUIREMENTS</b></p> <p><b>WARNING: Installation by Qualified Personnel Only</b><br/>This product must only be installed or fitted by a competent, qualified installer familiar with the relevant electrical standards and installation practices.</p> | <p><b>🚫 USER RESTRICTIONS</b></p> <p><b>WARNING: Not for Use by Vulnerable Individuals</b><br/>This product is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they are supervised or instructed by a person responsible for their safety.</p> | <p><b>🏭 USAGE ENVIRONMENT</b></p> <p><b>WARNING: Industrial Use Only</b><br/>This is an industrial-grade product and is not intended for household use.</p> | <p><b>⚠ HOT SURFACE WARNING</b></p> <p><b>WARNING: Hot Surfaces</b><br/>On certain models, surfaces marked with this symbol become hot during use. Avoid direct contact and follow all thermal safety precautions.</p> |
|--|---|--|---|--|

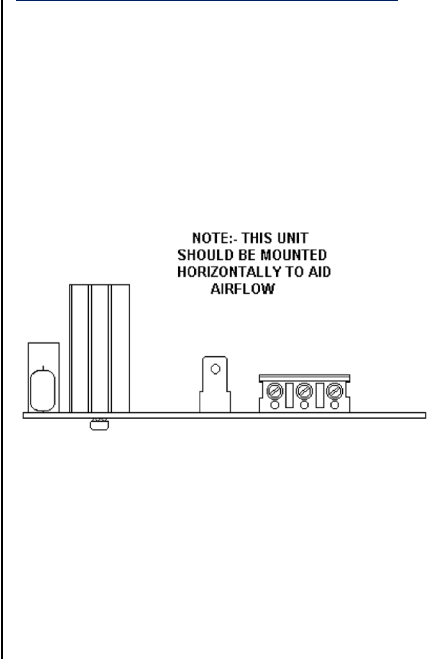
# UV6/D

110V, 230V

## INSTALLATION



## COOLING REQUIREMENTS



## RECOMMENDATIONS

### 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 Datasheet for further information).

### CE Marking

This product family carries a "CE" marking. These burst firing type controllers do not require a filter. For information see recommendation section and contact our sales desk. See the Declaration of Conformity.

## DOCUMENTS

Other documents available on request, which may be appropriate for your application:

| Code   | Identity | Description   |
|--------|----------|---|
| X10229 | RFI      | Filtering Recommendations: 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 and Fusing Recommendations |
| P01.1  | COS      | UAL Conditions of Sale  |

It is recommended that installation and maintenance of this equipment should be done with reference to the current edition of the I.E.T. regulations (BS7671) by suitably qualified/trained personnel. The regulations contain important requirements regarding the safety of electrical equipment. For International standards refer STANDARDS on D of C.

## PRODUCT CODE AND RELATED PRODUCT CODE

| Product Code | Product Description |
|--------------|---------------------|
| A52225       | UV6/D 110V, 230V    |



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