

# X10817 – ZVT2-50-IF 0-40 Degrees Burst Fired Flicker Inhibited 50A Temperature Controller Issue 2



## 1 Introduction

The ZVT-50 is a linear precision temperature controller. This stand-alone OEM unit, with 50A current capability, is ideal for high power, closed loop temperature control applications. Using variable on/off bursts of complete mains cycle energy, coincident with mains zero cross-over to avoid RFI problems.

The Thyristor, fuse, terminals and all main parts are enclosed and it is mounted on an integral heatsink to ensure long life with reliable high ambient temperature operation. The controller is supplied with a control knob and ZVT scaled dial (0 to 40°C). The temperature sensor is ordered separately and is not included with the unit.

## 2 Applications

Suitable for temperature control of single - phase resistive heaters, ovens, dryers, hot plates and flexible heater mats.

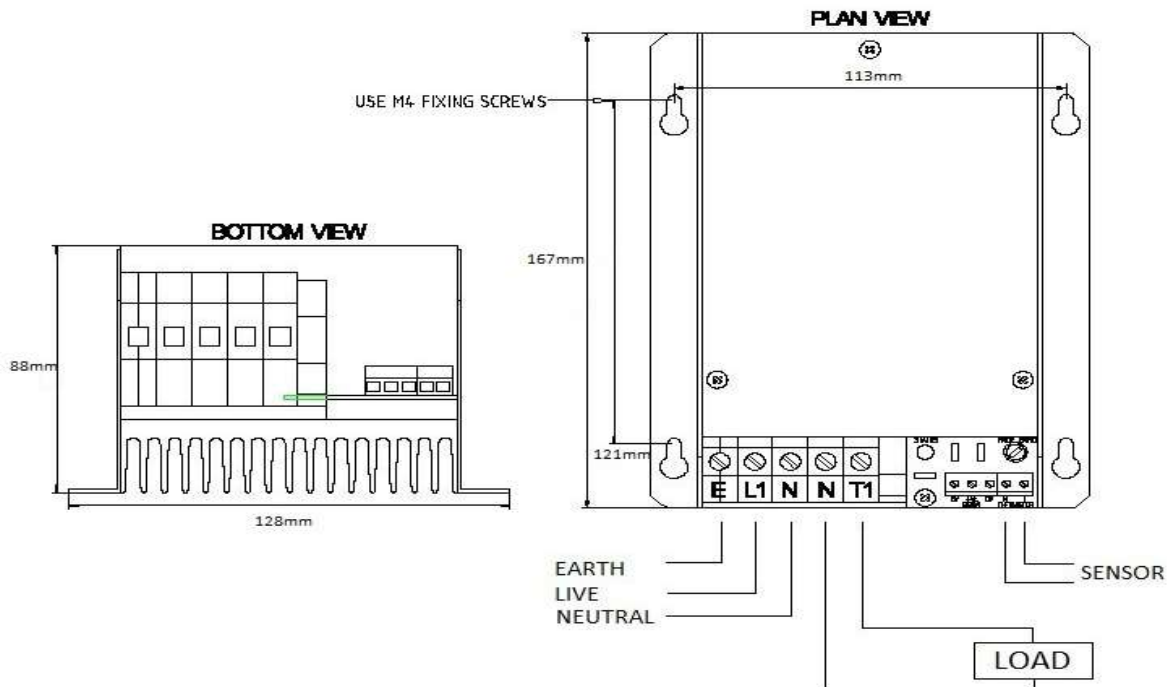
## 3 Features

- Microprocessor based.
- Flicker inhibited.
- High speed fuses.
- Enclosed panel mounting
- Control knob and scaled dial supplied.



## 4 Installation

### Fixing/Mounting/Dimensions



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## 5 Specifications

Thyristor limiting RMS on-state current.	60A
Peak single cycle surge current.	1300A
Integral high speed (semiconductor) 80A ferrule fuse.	18.5mm Ø x 53.4mm long
Supply voltage for ZVT2.	230Vac +/- 10% @ 50/60Hz
Temperature control range.	0 to +40°C
Calibration accuracy of full scale.	3%
Isolation voltage (typical)	2500V rms
Proportional band (internal screw adjust 'typical').	5-15%
Front panel Dial - Scale (54 x 46 mm linear & adhesive backed).	0 to +40°C
Operation temperature range.	0 to +65°C
Storage temperature range.	0 to 65°C
Control stability (typical).	1%
Weight.	≈ 1.3Kg
Overall dimensions.	(see <i>Installation section</i> )

## 6 Fusing

A semiconductor, fast acting type fuse, is supplied as standard for unit protection. On initial operation, some loads may need an increased Factor of Safety (F of S) for unit and/or device protection. For spares or replacements contact our sales desk.

## 7 CE Marking

This product family carries a “CE” marking. For information see recommendation section and contact our sales desk.

## 8 Recommendations

Other documents available upon request, which may be appropriate for your application.

Code	Identity	Description
X10229	RFI	Filter 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
X10612	ZVT E-10K3A1	ZVT enclosed flicker inhibited NTC sensor installation sheet
P01.1	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.T. (formally I.E.E.) regulations (BS7671) by suitably qualified/trained personnel. The regulations contain important requirements regarding installation and safety of electrical equipment. Specific installers should refer to local and national regulations.

## 9 Order Code

	ZVT (230v)-50A-(Flicker Inhibited)-(Temperature range-0-40C)-Compact
<b>Part Number</b>	ZVT2-50-IF Compact
<b>Optional Extras</b>	ZVT-E-10K3A1 Enclosed Sensor



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