



ZVS 16DV 110 / 230V AC

The ZVS 16DV is a dual voltage, 16A, enclosed, compact energy regulator. It provides manual proportional power control to resistive loads by using variable bursts of energy. The burst firing circuit provides trigger pulses coincident with the mains polarity crossover, ensuring complete sine wave cycles are passed through to the resistive load. This prevents fast changes in load current and inhibits radio frequency interference (RFI), which is normally associated with switches, relays and phase angle fired triacs or similar devices. The output is in block bursts, with a full 0 to 100% range. The output block lengths can be varied from a rapid burst fire mode to a variable duty cycle range of 1-30 seconds.

APPLICATIONS

- Ovens
- Fish & Chips
- Restaurant's
- Hospitality
- Quartz Lamps / Heat Lamps
- Moulders
- Dryers and
- Some inductive loads,
for example transformers and motors



FEATURES

- Input voltage range suitable for 110V to 230V ac
- Load rating range - resistive, from 0.1 to 3.7kW @ 230V and 0.1 to 1.8kW @ 110V ac
- High surge 25A power device
- No remote filter requirements - Zero Voltage Switching control.
- Wire protective screw fixing terminal block connections.
- Variable Duty cycle range 1-30s (adjustable by duty cycle trimmer at rear)

TECHNICAL SPECIFICATIONS

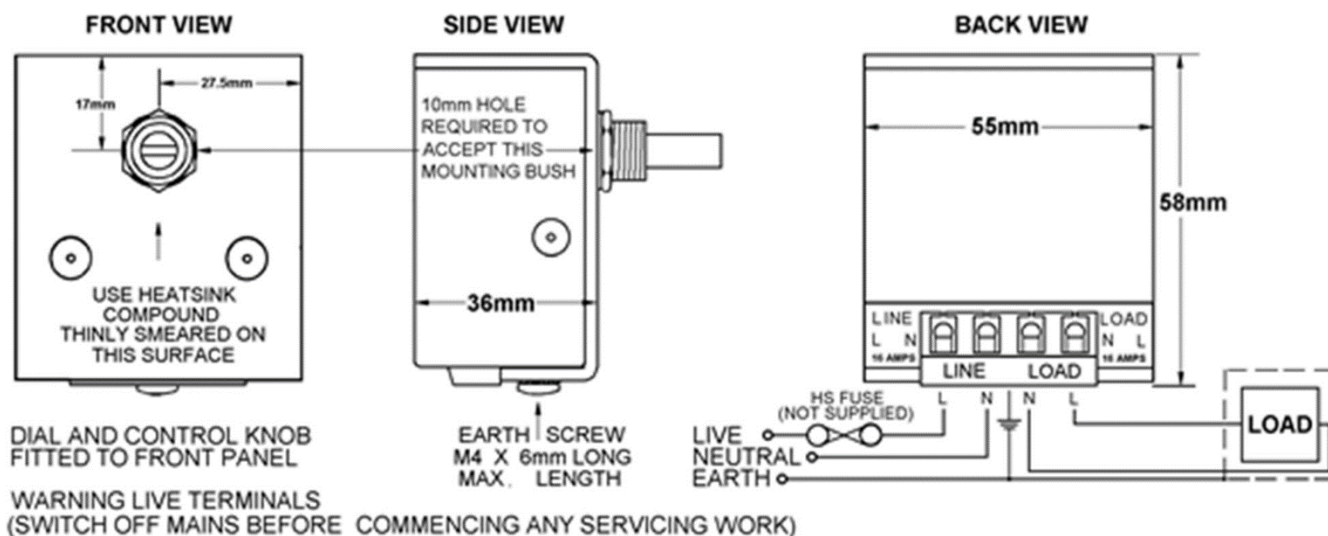
Maximum rms on-state current	16A
Peak one cycle surge current	200A
AC supply voltage range @ 50/60 Hz	100-250V
I ² t for fusing	128 A ² s
Weight (approx)	105g
Maximum CSA cable entry	2.5mm ²
Further dimensions	
Maximum peak repetitive voltage	600V
Maximum power consumption	6W
Operating and storage temperature range	0 to +85°C
Isolation voltage	2.5kV rms
Shaft diameter (1/4 inch)	6.3mm
Shaft projection from bush	13mm
Bush length	7mm
Fixing hole diameter	10mm



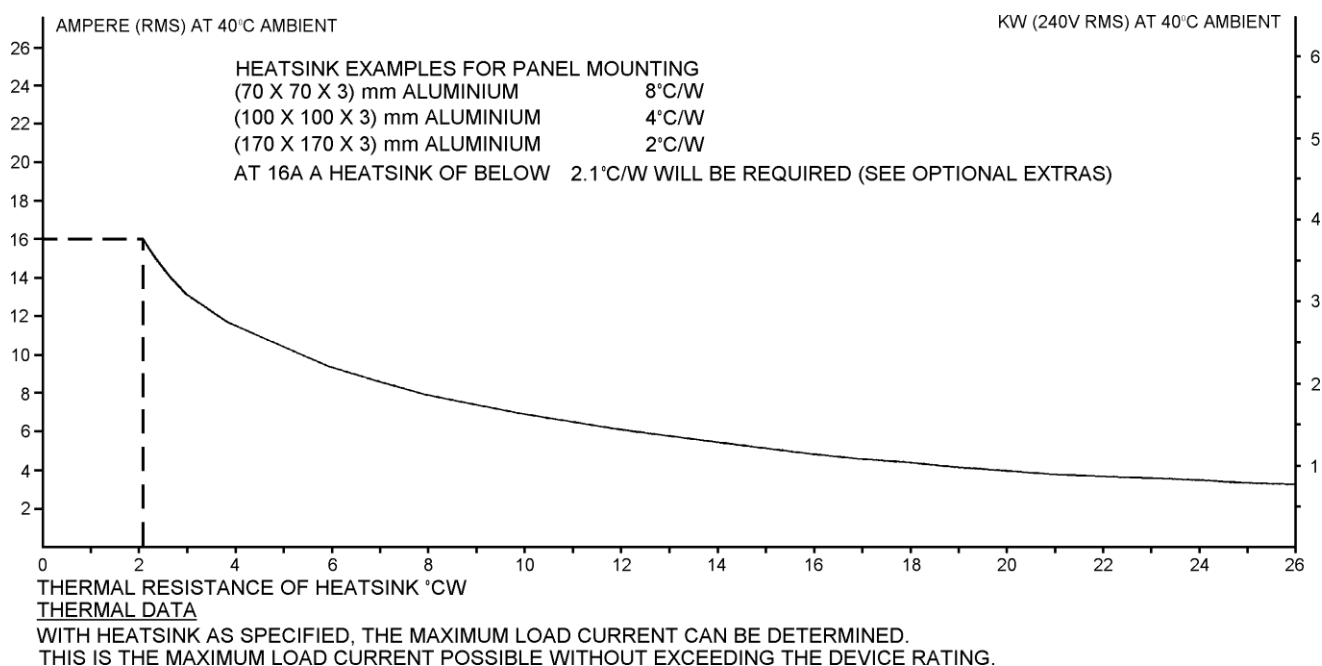
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Installation

Dimensions and Connections



Cooling Requirements





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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 information.

Recommendations

Other documents available on 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

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.

OPTIONAL EXTRAS

Product Code	Product Description
N30001	Standard Knob
L60016	ZVS DIAL
Z01062	Heatsink Compound Syringe (Must be applied while fitting)

PRODUCT CODE AND RELATED PRODUCT CODE

Product Code	Product Description
A23212	ZVS-16DV Compact Phase Angle AC Regulator