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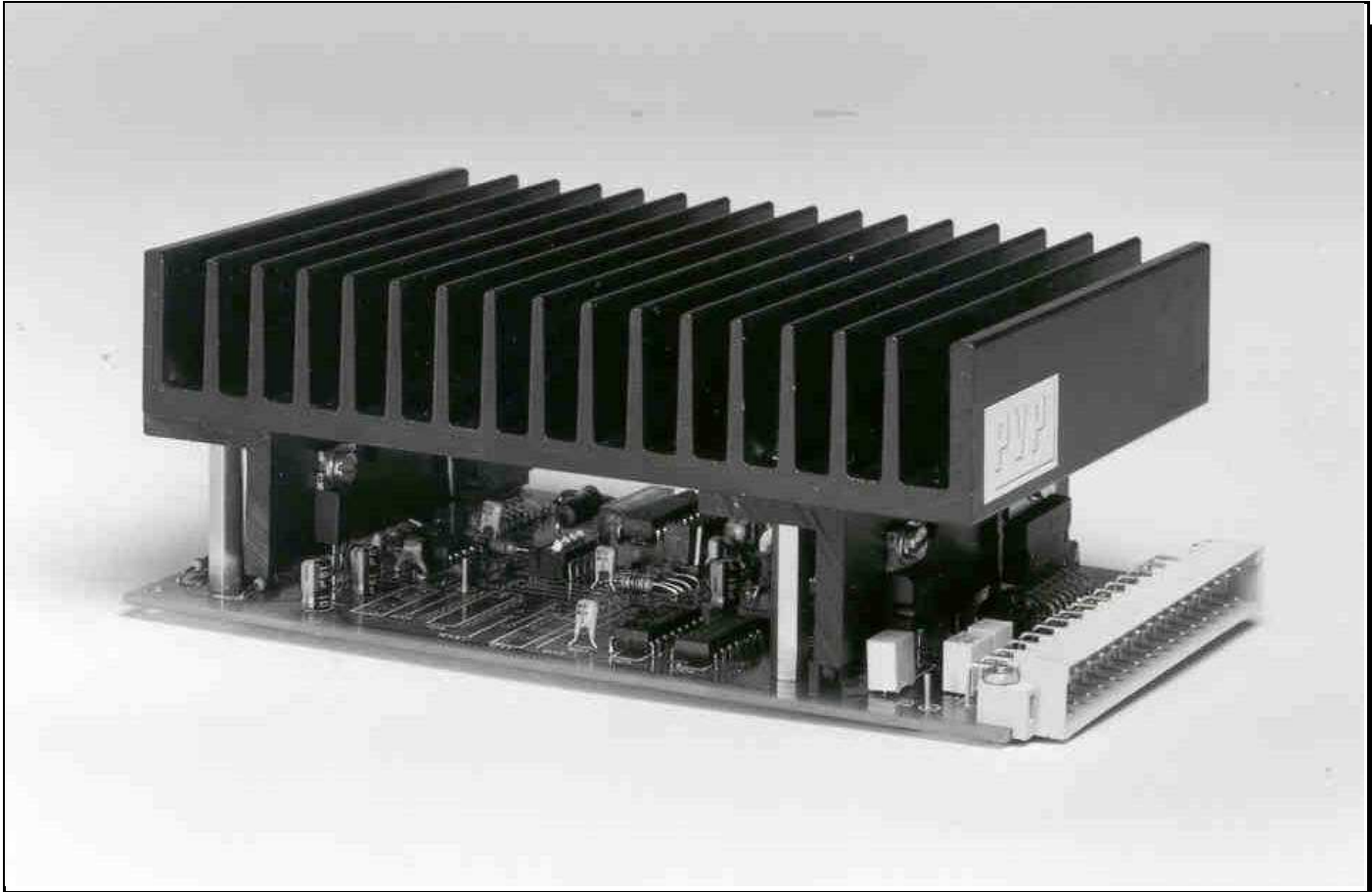
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# 24 SERIES STEPPER DRIVES

## PV P2435

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The Series 24 range of Bipolar Stepper Motor Drives, manufactured by Alzanti, have been developed to meet the growing demand for high performance, cost effective, bipolar drivers. They have been designed to be compatible with the specifications of many stepper motors, with options available to suit numerous applications. PWM chopper regulation provides a very efficient motor drive stage, extending the useful speed range of motors whilst reducing heat dissipation and power consumption.

The **PVP2435** delivers a maximum continuous motor current of 3.5 Amps per phase. Motor phase currents are programmable from 0.7 to 3.5 Amps, via a DIL switch mounted on the board, which allows a wide range

of motors to be from NEMA frame size 08 to 34 to be driven, at voltages between 15 and 40Vdc max.

Other standard features include: Full/half step mode selection; overload protection; output stage disable function.

Optional extras include:-

1. A simple on-board oscillator for manual speed control.
2. An over temperature sensor for use where elevated operating temperatures may cause a problem.

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**ALZANTI**®  
**THE DRIVING FORCE IN MOTION CONTROL**

## Mclennan Servo Supplies

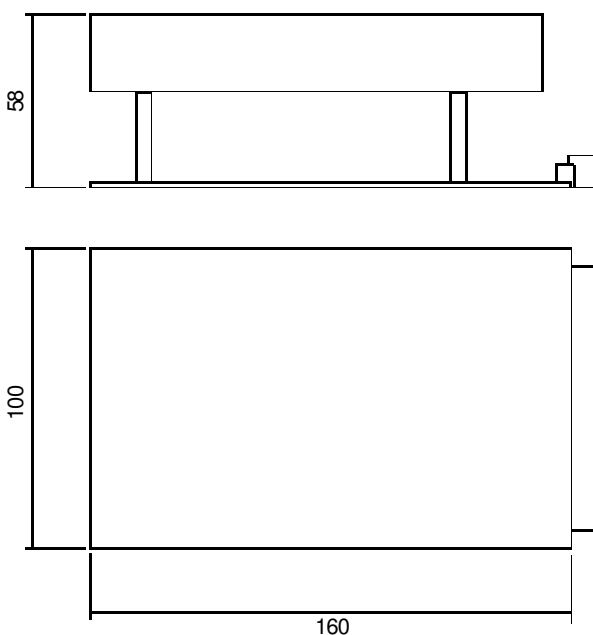
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# SPECIFICATION

## PVP2435

<b>Motor Supply Voltage:</b>	15 to 40Vdc (maximum) smoothed, unregulated
<b>Motor Output Current:</b>	0.7 to 3.5 Amps
<b>Logic Supply Voltage:</b>	15 to 30Vdc (maximum) smoothed, unregulated
<b>Logic Supply Current:</b>	120mA (typical)
<b>Aux. Supply Outputs:</b>	+12Vdc regulated, 50mA maximum +5Vdc regulated, 50mA maximum
<b>Max. Step Pulse Frequency:</b>	20kHz, with minimum pulse width 10 $\mu$ S
<b>Control Signal Inputs:</b>	CMOS Schmitt Trigger inputs operating at +12Vdc with 10k $\Omega$ pull-up resistors and diode isolation, i.e. NPN 'sinking' compatible. Logic 0 (low) 0V to +2V, or short circuit to 0V Logic 1 (high) +9V to +30V max, or open circuit
<b>Monitor Outputs:</b>	Open collector NPN (ref to 0V) Low level $\leq$ 1V max at 30mA max High level - open circuit, +30Vdc max
<b>Temperature Range</b>	
<b>Operating:</b>	0 $^{\circ}$ C to +40 $^{\circ}$ C ambient max. (RH $\leq$ 60%, non condensing)
<b>Storage:</b>	-10 $^{\circ}$ C to +70 $^{\circ}$ C maximum (RH $\leq$ 60%, non condensing)
<b>Weight:</b>	0.8kg (typical)
<b>Edge Connector (PCB):</b>	DIN41612, 32 way plug, body style D, rows a&c, class 2
<b>Printed Circuit Board:</b>	Glass Fibre FR4 UL94V-0, 1.6mm, PTH, Resist and Ident

DIMENSIONS IN mm



### Control Input Options

