

BLDC Controller D001

Brushless DC Motor Controller



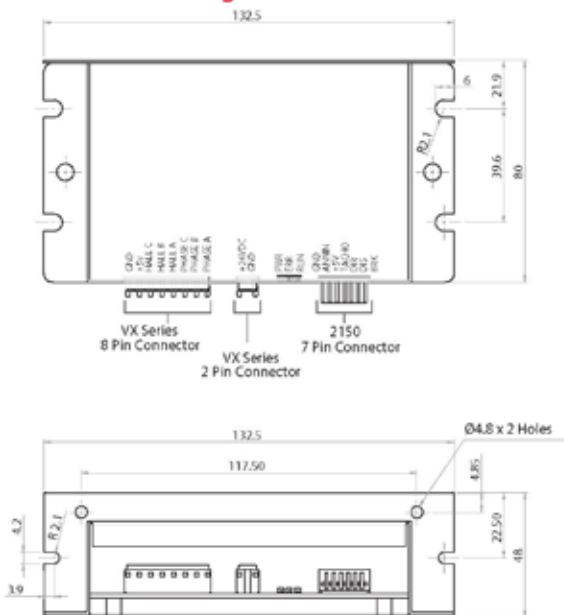
Features

- Sensored drive in three - phase full-wave mode
- PWM chopper control
- Controls the PWM duty cycle, based on an analog input (8-bit ADC)
- Output current : I = 4 A max.
- Overcurrent protection(motor shall stall if current exceeds limits)
- Improved torque and response due to sensored Operation
- Excellent low speed response due to sensored operation
- Forward and reverse rotation
- Motor & Drive enable / disable
- Motor Brake Function
- All Input (Analog / Digital) protected for Over voltage & short
- Tacho out provided for feedback control. Gives 2/4 pulses per rotation. Needs external pull up resistor. Recommended value = 4.7k for 5v pulse.

Technical Data

Specification	Units	Detail
Voltage Operating Range	V DC	18 - 36
Current Limits	Amp	5
Circuit Current	Amp	0.037
Voltage Range of Speed Pot	V DC	0 - 4.5
Drive Control		
Forward (CW)		DIR - High
Reverse (CCW)		DIR - Low
Enable		DIS - High
Disable		DIS - Low
Running		BRK - Low
LED INDICATOR		
Power Indicator (Green)		LED Indicates Power of Status
Run Indicator (Red)		LED Indicates Motor Shaft is Running
Error Indicator		LED Indicates Improper Connection, Over Load Speed

Dimensional Drawing



CONTROL BOX (Connection External to BLDC Controller)

