# Eagle 50 - Dual Channel Drive

## **Brushless Permanent Magnet Motor Drive**



The Eagle 50 is an innovative dual motor drive that provides up to 50 Amps per motor. The Eagle platform is ideal for robotics applications that require precise motion control and positional accuracy, such as AGVs and other robots utilizing a dual motor system.

Input Voltage: 35 Vdc - 55 Vdc

Continuous Current: 40 Amps (per motor)

Peak Current: Up to 50 Amps (per motor)

Motor Speed: Up to 10,000 rpm
Warranty: One year limited warranty
Separate Logic Voltage: 24Vdc



## **Motor Options**

- · Sinusoidal commutation
- Designed for Brushless Permanent Magnet motors
- Compatible with 4, 6, 8, 10, 12, or 14 pole motors
- Differential Hall Effect Sensors
- Encoders (incremental A/B with index, differential)
- · Mechanical brake support
- · Output for brakes (each channel)

## Safety Features

- Over current protection
- Internal thermal protection
- External NTC connection
- Over speed protection
- Encoder fault protection
- Under/over voltage protection

## Communication Interfaces and I/O

- CANopen DS301 and DS402
- 14 pin Molex connector

## **Operating Modes**

- Cyclic torque
- Velocity

#### **Environment Ratings**

- Storage: -40°C to 85°C
- Operating temperature: -30°C to 50°C
- Withstands 95% relative humidity (non-condensing)

## **Dimensions and Weight**

Length: 140 mmWidth: 175 mm

· Height: 35 mm

• Weight: 320 g (11.28 oz) [.71 lb]

#### **Agency Approvals**

- IEC/UL 61800-5-1
- IEC/UL 61800-5-2

### **Programming and Indicators**

- Field programmable firmware
- 48V indicator
- Status indicator
- STO status indicator

