

# Falcon 150

## Brushless Permanent Magnet Motor Drive



As part of Nidec's diverse lineup of Ultra Low Voltage drives, the Falcon 150 offers additional flexibility to drive larger motors. Multiple communication interfaces allow the Falcon 150 to be a versatile solution that provides up to 150A of peak current, while remaining compatible with a wide variety of brushless motors.

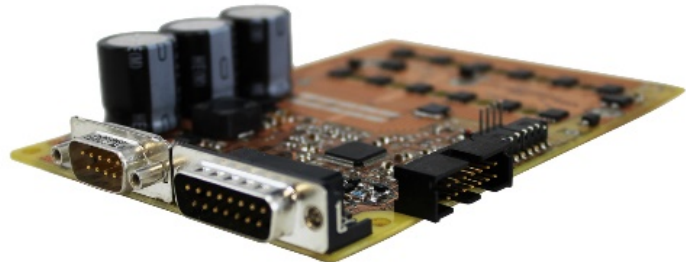
**Input Voltage:** 20 Vdc – 90 Vdc

**Continuous Current:** 100 Amps

**Peak Current:** Up to 150 Amps

**Motor Speed:** Up to 6,000 rpm

**Warranty:** One year limited warranty



### Motor Options

- Sinusoidal commutation
- Designed for Brushless Permanent Magnet motors
- Compatible with 2,4,6,8,10,12, or 14 pole motors
- Hall effect sensors
- Full quadrature encoder

### Communication Interfaces

- CANopen or EtherCAT (CANopen over Ethernet)
- RS-485
- USB
- 0-5V
- PWM
- Output for electronic brakes

### Environment Ratings

- Storage: -40°C to 125°C
- Operating temperature: -30°C to 55°C
- Withstands 95% relative humidity (non-condensing)

### Agency Approvals

- IEC 61800-5-1
- UL 61800-5-1
- CSA C22.2 NO.14-13

### Operating Modes

- Open loop speed
- Closed loop speed
- Closed loop current
- Closed loop position (optional)

### Safety Features

- Safe torque off (STO)
- Safe speed
- Safe stop compliant
- Reverse polarity protection
- Internal thermal protection
- External thermocouple connection

### Dimensions and Weight

- Width: 134 mm
- Length: 95 mm
- Height: 72 mm
- Weight: 700 g (24.7 oz) [1.5 lb]

### Programming and Indicators

- Power indicator - red
- Status indicator – green



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