

# Osprey 40

## Brushless Permanent Magnet Motor Drive



As part of Nidec's diverse lineup of Ultra Low Voltage drives, the Osprey 40 features an innovative stacked PCB design. This unique layout optimizes the board for a smaller footprint without sacrificing functionality.

**Input Voltage:** 10 Vdc – 60 Vdc

**Continuous Current:** 20 Amps

**Peak Current:** Up to 40 Amps

**Motor Speed:** Up to 10,000 rpm

**Warranty:** One year limited warranty



### Motor Options

- Trapezoidal or sinusoidal commutation
- Designed for Brushless Permanent Magnet motors
- Compatible with 2,4,6,8 or 10 pole motors
- Hall effect sensors
- Incremental encoder – A/B with index

### Communication Interfaces

- CANopen
- RS-485
- USB
- 0-5V
- PWM

### 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

### Safety Features

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

### Dimensions and Weight

- Width: 45.7 mm
- Length: 40 mm
- Height: 24 mm
- PCB Mounted Weight: 55 g (1.94 oz) [.12 lb]
- Industrial Terminals: 100 g (3.5 oz) [.22 lb]

### Programming and Indicators

- Field programmable
- Programmable input/output
- Power indicator - red
- Status indicator - green



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