

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.

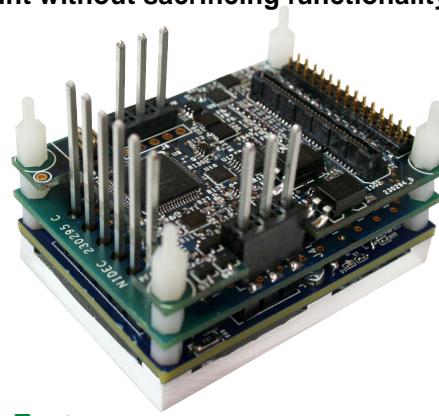
Input Voltage: 10 Vdc – 60 Vdc

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 2,4,6,8,10 or 14 pole motors
- Multiple I/O interface configurations
- Hall effect sensors
- Incremental encoder – A/B with index
- Brake option (open drain FET, 24V 1.0A output)

Safety Features

- Safe torque off (STO) - Pld Sil 3
- Üç^& ^{ } c{ [{ c^&c{ [}
- Reverse polarity protection
- Internal thermal protection
- External thermocouple connection

Communication Interfaces and I/O

- CANopen - DS301 and DS402
- Digital I/O: 3 inputs/H outputs (5V non-isolated)
- Analog I/O: 1 single ended input (0-5V)
- 5V supply output: 150mA
- Dynamic braking/chopper resistor support

Operating Modes

- Profile velocity mode
- Profile position mode
- Velocity current control mode
- Homing mode

Environment Ratings

- Storage: -40°C to 85°C
- Operating temperature: -30°C to 55°C
- Withstands 95% relative humidity (non-condensing)

Dimensions and Weight

- Length: 40 mm
- Width: 55 mm
- Height: 38 mm (with interface board)

Agency Approvals

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

Programming and Indicators

- Øi^&{[*|^æ { { æ| ^
- Power indicator - red
- Status indicator - green
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