

Hawk 100

Brushless Permanent Magnet Motor Drive



As part of Nidec's diverse lineup of Ultra Low Voltage drives, the Hawk 100 offers additional flexibility to drive larger motors with up to 60A of continuous current output. The Hawk's ability to utilize trapezoidal or sinusoidal commutation allows the drive to be tuned specifically to almost any application.

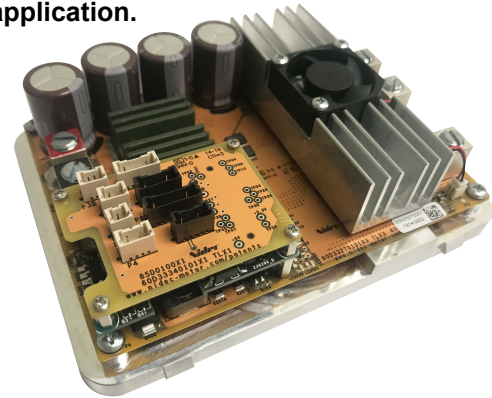
Input Voltage: 10 Vdc – 90 Vdc

Continuous Current: 60 Amps

Peak Current: Up to 100 Amps

Motor Speed: Up to 10,000 rpm

Warranty: One year limited warranty



Motor Options

- Sinusoidal or trapezoidal commutation
- Designed for Brushless Permanent Magnet motors
- Compatible with 2,4,6,8, or 10 pole motors
- Hall Effect Sensors
- Incremental encoder with
- Brake option (open drain FET, 24V 1.0A output)

Communication Interfaces and I/O

- CANopen - DS301 and DS402
- Digital I/O: 3 inputs/2 outputs (5V non-isolated)
- Analog I/O: 1 single ended input (0-5V)

Environment Ratings

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

Agency Approvals

- IEC/UL 618000-5-1
- IEC/UL 618000-5-2

Safety Features

- Safe torque off (STO)
- Safe speed compliant
- Safe stop compliant
- Reverse polarity protection
- Internal thermal protection
- External thermocouple connection
- SIL-3 certification

Operating Modes

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

Dimensions and Weight

- Length: 105 mm
- Width: 145 mm
- Height: 57.15 mm
- Weight: 700 g (24.7 oz) [1.5lb]

Indicators

- Power indicator - red
- Status indicator – green
- STO status - white
- Programmable input/output



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