

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

- Trapezoidal or Sinusoidal Commutation
- Designed for Brushless Permanent Magnet motors
- Compatible with 2,4,6,8, or 10 pole motors
- Hall Effect Sensors
- Incremental Encoders – A/B with Index

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) [1.5lb]

Indicators

- Power indicator - red
- Status indicator - green



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