

Hawk 100

Brushless Permanent Magnet Motor Drive

Nidec
MOTION CONTROL

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.

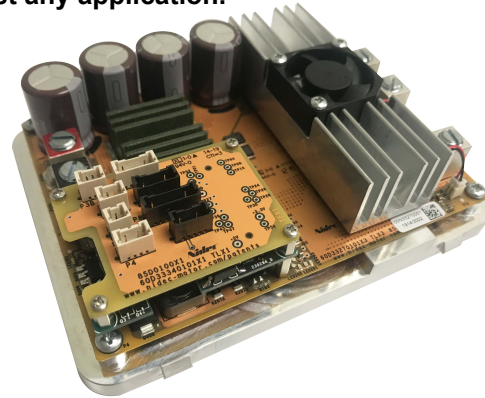
Input Voltage: 20 Vdc – 55 Vdc

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 4, 6, 8, 10, 12, or 14 pole motors
- Hall Effect Sensors (differential, push-pull, open collector)
- Encoders (incremental A/B with index, differential, push-pull)
- Brake option (open drain FET, 24V 1.0A output)

Communication Interfaces and I/O

- CANopen - DS301 and DS402
- Digital I/O: 3 inputs/3 outputs (5V non-isolated)
- Analog I/O: 1 single ended input (0-5V)
- STO: 2 inputs/1 output (isolated)
- 5V supply output: 100mA
- PWM

Environment Ratings

- Storage: -40°C to 85°C
- Operating temperature: -30°C to 50°C
- Withstands 95% relative humidity (non-condensing)

Agency Approvals

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

Safety Features

- STO - SIL3/PLe
- Overcurrent protection
- Reverse polarity protection
- Internal thermal protection
- External NTC connection
- i2t protection
- Over speed protection
- Encoder fault protection
- Under/over voltage protection

Operating Modes

- Homing
- Profile velocity
- Velocity
- Profile position
- Position
- Torque

Dimensions and Weight

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

Indicators

- Field programmable firmware
- Nidec Motion Control Studio - setup and commission tool

Nidec
MOTION CONTROL

8050 W. Florissant Avenue | St. Louis, MO 63136
Toll Free Number: 833-266-4332