

HRW 3.3

Brushless DC (BLDC) Motors



Nidec Motor Corporation's 3.3 motor platform provides a high level of customization, while also utilizing standardized components to facilitate highly competitive pricing. Used in applications ranging from agriculture to robotics, the Nidec 3.3 motor platform satisfies a wide range of performance requirements. Designed for modular integration with Nidec controls and gearboxes, the 3.3 motor platform is a versatile product that can handle even the most challenging applications.

- Horsepower Rating:** Up to 1.5 HP
- Peak Torque:** Up to 4.94 Nm
- Speed Range:** Up to 18,000 RPM
- Mounting:** NEMA 34, NEMA 100 or customized
- Rated Voltages:** 12Vdc – 48Vdc, 115/230Vac
- Encoder Options:** 100 – 1000 line available
- Power:** Up to 1200 Watts (higher ratings available)
- Warranty:** One year limited warranty*



Product Overview and Options

The HRW 3.3 is designed to provide:

- Maximum application flexibility
- Increased reliability
- Compact integrated encoder option
- 4 quadrant closed loop or 2 quadrant open loop
- Operates in speed or torque mode
- Coordinated motor and drive performance
- Affordable servo control
- Custom mounting options
- Manual thermal protection or thermostat options

Typical Applications:

- AGV applications
- Robotics
- Door and gate openers
- Packaging equipment
- Medical
- Indexing and positioning
- Mail processing and sorting
- General purpose equipment
- Agriculture
- Pumps
- Material handling



HRW 3.3 Motor

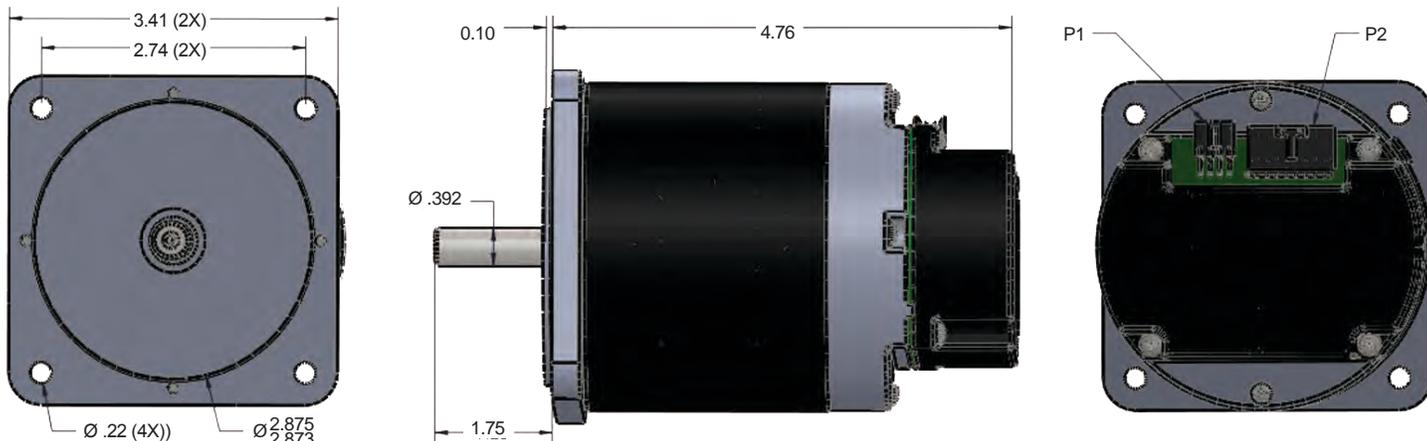
Product Features

- Integrated motor controls matched to motor winding
- Ultra smooth precision motion quality
- Neodymium magnets
- Stainless steel shaft
- Over 20,000 hours of design life @ rated torque
- Long life ball bearing system
- Small package size with low rotor inertia
- Up to 85% motor efficiency
- Multiple configurations: totally enclosed, vented and totally enclosed fan cooled
- Gearboxes available for further customization

Dimensions

Ask your Nidec Motor Corporation sales representative for integrated control, encoder and gearbox options.

HRW 3.3 with feedback dimensions



A Complete Motor Solution:

- Custom windings available
- Controls paired to match windings and optimize performance
- Gearboxes designed for required output

AGV Wheel Options:

- Choice of gear ratios
- Various tire and wheel options
- Custom hardware available

Planetary Gearing:

- Wide selection of gear ratios and features
- Inline and metric
- High torque and low backlash



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Nidec
NIDEC MOTOR CORPORATION

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