



Part Number: AC300020

Description: 24V 3-Phase Brushless DC Motor

Summary:

This 24-Volt 3-phase Brushless DC (BLDC) permanent magnet Hurst NT Dynamo motor comes with Hall-Effect sensors for 6-step commutation. It can also be controlled with a sensorless Back EMF (BEMF) or Field Oriented Control (FOC) algorithm. This Hurst motor is perfect for applications in office automation, instrumentation and medical equipment such as high-speed copiers and printers, ATM machines, medical analyzers, mail processing and sorters and general-purpose equipment. This motor has been extensively tested with the dsPICDEM™ MCLV-2 Development Board (DM330021-2), the Low Voltage Motor Control Development Bundle (DV330100) and with the PICDEM MC LV Development Board (DM183021).



Features:

Electrical:

- Operates in speed or torque mode
- Supports 2 or 4 Quadrant operation
- 10Vdc-48Vdc range
- Up to 32oz-in [226 mN-m] torque (with no gearing)
- Ultra smooth precision motion quality
- Approved Class B insulation system

Mechanical:

- Long-life ball bearing system
- Size 17 and NEMA 23 mounting flange

- Neodymium ring magnets (not arcs)
- Stainless steel shaft
- Over 20,000 hours of design life @ rated torque
- Standard Molex® connectors
- Small package size with low rotor inertia
- Up to 3,125 RPM operation

Reliability:

- Over 1.5 million hours of combined Life and Reliability Testing
- In use at major OEM's in demanding applications