

KEYLESS SHAFT MOTOR



AEHHSY, NEMA PREMIUM (200 HP - 500 HP) [EPY]
AEHESY, HIGH EFFICIENCY [EY]

Effective 07-08-18
Supersedes 03-24-17



APPLICATIONS:

- Fans & Blowers
- Pumps
- Compressors
- Mixers
- Any Severe Duty/ Petro-Chem Pulp & Paper Application

FEATURES:

- Output Range: 200 - 800 HP
- Speed: 1800, 1200 & 900 RPM
- Enclosure: Totally Enclosed Fan Cooled (IP55)
- Voltage: 460V Only
- Three Phase, 60 Hz, 1.15 Service Factor (Continuous); 50 Hz, 1.0 Service Factor (Continuous)
- CSA Certified for Class I, Div. 2, Groups B, C, D - Temp Code T3 Minimum⁽³⁾
- CSA Certified for Class II, Div. 2, Groups F & G - Temp Code T3 Minimum⁽³⁾
- Class F Insulation
- Class B Temperature Rise
- NEMA Design B Torques
- Cast Iron Frame, End Brackets & Fan Cover and Main Conduit Box⁽⁶⁾
- Grounding Terminal Inside Main Conduit Box
- Oversized Main Conduit Box Rotatable in 90 Degree Increments - F1 Mounted
- Designed for 40°C Ambient Temperature⁽¹⁾
- Designed for 3300 ft. Elevation⁽²⁾
- Bi-Directional Rotation
- SCM440 Q&T Keyless Oversized Shaft
- Aluminum Die Cast Squirrel Cage Rotor Construction or Copper/Copper Alloy Rotor Construction. See product page for more details.
- Paint System: Phenolic Rust Proof Base Plus Polyurethane Top Coat
- Paint Color: Light Gray - Munsell N5.0
- High Quality Ball (or Roller) Bearings Regreasable with Mobil Polyrex™ EM
- Automatic Grease Discharge Fittings on Regreasable Models
- Labyrinth Type Metal Flinger on Both Ends
- Cast Iron Inner and Outer Bearing Caps
- Stainless Steel Nameplate
- New Dual Column Design Nameplate as Standard (60/50 Hz)
- Suitable for Inverter Use per NEMA MG-1 Part 31.4.4.2^(4,5)
- Inverter Duty Speed Range: 20:1 Variable Torque, 10:1 Constant Torque (350 HP and Larger are 3:1 Constant Torque)
- 6 Leads
- Motors are U.L. Recognized, CSA Approved and CE Marked
- Provisions for Bearing RTDs, both End Brackets Pre-Drilled and Plugged; F#5000 and Larger Only

EXTRAS/ OPTIONS:

Please refer to pages 147 - 154 for common modifications that can be performed.

Notes:

- (1) Consult a Stock Product Application Specialist for suitability in higher ambient environments.
- (2) Consult a Stock Product Application Specialist for suitability at higher elevations.
- (3) CSA Certification for Hazardous Locations only applies to select ratings. See product page for select details.
- (4) Motor service factor is 1.0 when operated on a VFD.
- (5) Precautions should be taken to eliminate or reduce shaft currents that may be imposed on the motor by the VFD as stated per NEMA MG-1, Part 31.
- (6) F# 5000 and Larger with Pressed Steel Plate Main Conduit Box.