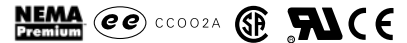


KEYLESS SHAFT MOTOR



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.

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CATALOG NO.	HP	RPM	FRAME	FL EFF (%)	FL PF (%)	FL AMPS (460V)	SHAFT DIAMETER (in.)	APPROX. SHIPPING WT. (lbs.)	
EPY2006 ^(1,3)	200	1200	449TY	95.8	84.0	233	3.875	2,685	
EPY2008 ^(1,3)	200	900	449TY	94.5	80.0	248	3.875	3,090	
EPY2504 ^(1,3)	250	1800	449TY	96.2	88.0	277	3.875	2,720	
EPY2506 ^(1,3)	250	1200	449TY	95.8	84.5	289	3.875	2,925	
EPY2508 ^(1,2,3)	250	900	5009UZ	95.0	81.0	304	5.000	4,200	
EPY3004 ^(1,3)	300	1800	449TY	96.2	88.0	332	3.875	2,855	
EPY3006 ^(1,3)	300	1200	449TY	95.8	84.5	347	3.875	3,100	
EPY3008 ^(1,2,3)	300	900	5009UZ	95.0	81.0	365	5.000	4,410	
EPY3504 ^(1,3)	350	1800	449TY	96.2	88.0	387	3.875	3,280	
EPY3506 ^(1,2,3)	350	1200	5011UZ	95.8	87.0	393	5.000	4,950	
EPY3508 ^(1,2,3)	350	900	5011UZ	95.0	81.0	426	5.000	5,040	
EPY4004 ^(1,2,3)	400	1800	5009UZ	96.2	90.0	433	5.000	4,025	
EPY4006 ^(1,2,3)	400	1200	5011UZ	95.8	87.0	449	5.000	4,950	
EPY4008 ^(1,2,3)	400	900	5808UZ	95.0	82.5	478	5.750	5,590	
EPY4504 ^(1,2,3)	450	1800	5011UZ	96.2	90.0	487	5.000	5,040	
EPY4506 ^(1,2,3)	450	1200	5808UZ	95.8	88.0	500	5.750	5,550	
EPY4508 ^(1,2,3)	450	900	5808UZ	95.0	82.5	538	5.750	6,320	
EPY5004 ^(1,2,3)	500	1800	5011UZ	96.2	90.0	541	5.000	5,300	
EPY5006 ^(1,2,3)	500	1200	5808UZ	95.8	88.0	555	5.750	5,900	
EPY5008 ^(1,2,3)	500	900	5810UZ	95.0	83.0	594	5.750	6,950	

Notes:

- (1) Noted ratings CSA Certified for Hazardous Locations Class 1 Div 2, Class 2 Div 2.
- (2) Noted ratings with Copper/Copper Alloy Rotor Construction.
- (3) Data subject to change without notice.

KEYLESS SHAFT MOTOR



AEHESY, HIGH EFFICIENCY [EY]

Effective 07-08-18
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CATALOG NO.	HP	RPM	FRAME	FL EFF (%)	FL PF (%)	FL AMPS (460V)	SHAFT DIAMETER (in.)	APPROX. SHIPPING WT. (lbs.)
EY2006	200	1200	449TY	95.8	84.0	233	3.875	2,685
EY2008	200	900	449TY	94.5	80.0	248	3.875	3,090
EY2504	250	1800	449TY	96.2	88.0	277	3.875	2,720
EY2506	250	1200	449TY	95.8	84.5	289	3.875	2,925
EY2508	250	900	5009UZ	94.5	81.0	304	5.000	4,200
EY3004	300	1800	449TY	96.2	88.0	332	3.875	2,855
EY3006	300	1200	449TY	95.8	84.5	347	3.875	3,100
EY3008 ^(2,4,5)	300	900	5009UZ	94.6	81.0	365	5.000	4,410
EY3504	350	1800	449TY	96.2	88.0	387	3.875	3,280
EY3508 ^(2,4,5)	350	900	5011UZ	94.8	81.0	426	5.000	5,040
EY4004	400	1800	5009UZ	95.2	90.0	433	5.000	4,025
EY4006 ^(2,4,5)	400	1200	5011UZ	95.0	88.0	449	5.000	4,950
EY4008 ^(2,3,4,5)	400	900	5808UZ	94.8	82.0	476	5.750	5,590
EY4504	450	1800	5011UZ	95.2	90.0	487	5.000	5,040
EY4506 ^(2,3,4,5)	450	1800	5808UZ	95.0	88.0	500	5.750	5,550
EY4508 ^(2,3,4,5)	450	1800	5808UZ	95.0	82.5	535	5.750	6,320
EY5004	500	1800	5011UZ	95.3	90.0	541	5.750	5,300
EY5006 ^(2,3,4,5)	500	1200	5808UZ	95.4	86.5	555	5.750	5,900
EY5008 ^(2,3,4,5)	500	900	5810UZ	95.2	82.5	590	5.750	6,950
EY6004 ^(2,3,4,5)	600	1800	5808UZ	95.5	90.0	654	5.750	6,250
EY6006 ^(2,3,4,5)	600	1200	5810UZ	95.6	86.8	677	5.750	6,550
EY6008 ^(2,3,4,5)	600	900	6808UZ	95.5	84.0	700	5.750	8,600
EY7004 ^(2,3,4,5)	700	1800	5810UZ	95.6	90.0	762	5.750	7,350
EY7006 ^(2,3,4,5)	700	1200	5810UZ	95.8	86.8	788	5.750	7,450
EY7008 ^(2,3,4,5)	700	900	6808UZ	95.6	84.0	816	5.750	9,050
EY8004 ^(2,3,4,5)	800	1800	5810UZ	95.6	90.5	866	5.750	7,800
EY8006 ^(2,3,4,5)	800	1200	6808UZ	96.0	87.0	897	5.750	8,550
EY8008 ^(2,3,4,5)	800	900	6808UZ	95.6	84.0	933	5.750	9,400

Notes:

- (1) Per DOE regulations, the High Efficiency inventory horsepower range of 200 HP - 500 HP will be available through June 2018, or until current inventory has been depleted. Whichever occurs first. Please see our new line of Premium Efficient Keyless Shaft motors on page 82.
- (2) Ratings in **Bold Print** do not have a DOE mandated NEMA Premium requirement and therefore will continue to be stock items. No change to current design.
- (3) Noted ratings CSA Certified for Hazardous Locations Class 1 Div 2.
- (4) Noted ratings with Copper/Copper Alloy Rotor Construction.
- (5) Data subject to change without notice.