

# MAX-E2/841® FAMILY



Effective 03-24-17  
Supercedes 06-14-15

**AEHH8B, NEMA PREMIUM [HB]**

**AEHH8BCF, NEMA PREMIUM, FOOTED C-FACE (1 HP - 100 HP) [HB\_C]**

**AEUH8BDC, NEMA PREMIUM, ROUND BODY C-FACE (1 HP - 100 HP) [HBV\_C]**



## APPLICATIONS:

- |                  |               |                            |
|------------------|---------------|----------------------------|
| ■ Fans & Blowers | ■ Compressors | ■ Severe Duty/ Petro-Chem/ |
| ■ Pumps          | ■ Mixers      | ■ Pulp & Paper Application |
| ■ Crushers       | ■ Conveyors   | ■ Marine Duty              |

## FEATURES:

- Output Range: 1 - 500 HP
- Speed: 3600, 1800, 1200 & 900 RPM
- Enclosure: Totally Enclosed Fan Cooled (IP56)
- Voltage: 460V Only<sup>(1)</sup>
- 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 Maximum<sup>(6,7)</sup>
- CSA Certified for Class II, Div. 2, Groups F & G - Temp Code T3 Maximum (Frame 444T and Above)<sup>(6,7)</sup>
- Meets or Exceeds IEEE 841 Standards
- Meets IEEE 45 Marine Duty and ABS Design Assessment up to 150 HP
- Extended Warranty - 60 Months from Date of Manufacture
- Class F Insulation
- Class B Temperature Rise
- NEMA Design B Torques as a Minimum; Various Ratings also Meet Design C
- Cast Iron Frame, End Brackets & Fan Cover and Main Conduit Box<sup>(8)</sup>
- Grounding Terminal Inside Main Conduit Box with additional Foot Grounding Provision
- Oversized Main Conduit Box Rotatable in 90 Degree Increments - F1 Mounted
- Designed for 50°C Ambient Temperature<sup>(2)</sup>
- Designed for 3300 ft. Elevation<sup>(3)</sup>
- Bi-Directional Rotation; Except 2 Pole "Hybrid" and F# 5000 and Larger Ratings are Counter-Clockwise facing the DE
- 1045 Carbon Steel Shaft
- Aluminum Die Cast Squirrel Cage Rotor Construction for F# 140T - 449T  
Copper/Copper Alloy Rotor Construction for F# 5000 and Larger<sup>(9)</sup>
- Paint System: 2 Part Epoxy
- Paint Color: Blue - Munsell 5PB 3/8
- High Quality Ball (or Roller) Bearings Regreasable with Mobil Polyrex™ EM Grease
- Automatic Grease Discharge Fittings
- VBXX INPRO™ Seals Installed on Both Ends
- Stainless Steel Nameplate and Hardware
- Stainless Steel Automatic Breather Drain
- New Dual Column Design Nameplate as Standard (60/50 Hz)
- Suitable for Inverter Duty (PWM - Pulse Width Modulation) per NEMA MG-1, Part 30<sup>(4,5)</sup>
- Inverter Duty Speed Range: 20:1 Variable Torque, 10:1 Constant Torque (350 HP and Larger are 3:1 Constant Torque)
- Motors are U.L. Recognized, CSA Approved
- 3 Leads Only
- Dual Drilled Feet Available on Most Ratings - Longer Frames (i.e. 145T Drilled also for 143T)
- Vibration Not to Exceed 0.08 Inches Per Second
- Noise Level Not to Exceed 85 dB(A) at 1 Meter Unloaded

## EXTRAS/ OPTIONS:

Please refer to the modifications document on our web site for common modifications that can be performed.

## Notes:

- (1) TWMC carries minimal MAX-E2® 575V stock; please check availability to ensure required motors are available. Ratings may be available from our Canadian Warehouses at a higher price or from our factory with a longer lead time. Pricing and lead time may vary.
- (2) Consult a Stock Product Application Specialist for suitability in higher ambient environments.
- (3) Consult a Stock Product Application Specialist for suitability at higher elevations.
- (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.
- (6) Catalog# HB3502 & HB3504 are "Hybrid" ratings; Not CSA Certified (Self-Certify Only) for hazardous locations, and not dual drilled.
- (7) Catalog# HB3006 also not CSA Certified for hazardous locations (Self-Certify Only).
- (8) F# 5000 and with Larger with Pressed Steel Plate Main Conduit Box.
- (9) F# 5007 - 5011 8 Pole Ratings are Aluminum Die Cast Squirrel Cage Rotor Construction.