

MAX-E2/841® VERTICAL ROUND BODY SOLID SHAFT NORMAL/MEDIUM THRUST with "P" BASE - LOW VOLTAGE



AEUH8BDP, NEMA PREMIUM, ROUND BODY [HBV_P]

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



APPLICATIONS:

- Centrifugal Pumps
- Pulp and Paper
- Petro-Chemical
- Water/Wastewater

FEATURES:

- Output Range: 15 - 100 HP
- Speed: 3600, 1800 & 1200 RPM
- Enclosure: Totally Enclosed Fan Cooled (IP56)
- Voltage: 460V Only^(1,4)
- 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
- Meets or Exceeds IEEE 841 Standards
- 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, Drip Cover and Main Conduit Box
- 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⁽²⁾
- Designed for 3300 ft. Elevation⁽³⁾
- Bi-Directional Rotation
- 1045 Carbon Steel Shaft
- Aluminum Die Cast Squirrel Cage Rotor Construction
- Paint System: 2 Part Epoxy
- Paint Color: Blue - Munsell 5PB 3/8
- Guide Bearings: 250HP - 400HP Frames are Single Shielded
- Thrust Bearings: 250HP - 405HP Frames are Re-Greasable Angular Contact with Mobil Polyrex™ EM
- Automatic Grease Discharge Fittings
- Cast Iron Inner and Outer Bearing Caps for all frames
- VBXX INPRO™ Seals Installed on Both Ends
- Stainless Steel Nameplate and Hardware
- Stainless Steel Automatic Breather Drain (Located at both End Brackets for Vertical Mounts)
- New Dual Column Design Nameplate as Standard (60/50 Hz)
- Suitable for Inverter Use per NEMA MG-1 Part 31.4.4.2^(5,6)
- Inverter Duty Speed Range: 20:1 Variable Torque, 10:1 Constant Torque
- Motors are U.L. Recognized, CSA Approved
- 3 Leads Only
- Vibration Not to Exceed 0.08 Inches Per Second
- Noise Level Not to Exceed 85 dB(A) at 1 Meter Unloaded
- NEMA Type P Base

EXTRAS/ OPTIONS:

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

Notes:

- (1) 575V motors available.
- (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) Motors 7.5 HP & up are suitable for wye/delta starting.
- (5) Motor service factor is 1.0 when operated on a VFD.
- (6) 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.
- (7) HP Shaft is same as VP shaft dimensions per NEMA MG-1.

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CAT. NO.	HP	RPM	FRAME	FL EFF (%)	FL PF (%)	FL AMPS @ 460V	DOWN THRUST (lbs.)	BD DIM (in.)	APPROX. SHIPPING WT. (lbs.)
HBV0156P	15	1200	284HP	92.4	83.5	18.2	1200	10.00	540
HBV0206P	20	1200	286HP	91.7	84.0	24.3	1570	10.00	565
HBV0252P	25	3600	284HP	92.4	91.0	27.8	900	10.00	490
HBV0254P	25	1800	284HP	93.6	86.0	29.1	1295	10.00	555
HBV0256P	25	1200	324HP	93.0	83.0	30.3	1750	16.5	759
HBV0302P	30	3600	286HP	93.0	91.0	33.2	960	16.5	535
HBV0304P	30	1800	286HP	93.6	87.5	34.3	1295	16.5	656
HBV0306P	30	1200	326HP	93.0	80.5	37.5	1750	16.5	795
HBV0404P	40	1800	324HP	94.1	86.0	46.3	1395	16.5	740
HBV0406P	40	1200	364HP	94.1	86.5	46.0	2200	16.5	898
HBV0504P	50	1800	326HP	94.5	87.0	56.9	1395	16.5	845
HBV0506P	50	1200	365HP	94.1	86.0	57.8	2200	16.5	1,110
HBV0604P	60	1800	364HP	95.0	86.5	68.4	1800	16.5	955
HBV0606P	60	1200	404HP	94.5	87.0	68.3	2825	16.5	1,355
HBV0754P	75	1800	365HP	95.4	86.5	85.1	1800	16.5	1,040
HBV0756P	75	1200	405HP	94.5	86.5	85.9	2825	16.5	1,363
HBV1004P	100	1800	405HP	95.4	87.5	112	2300	16.5	1,385

Notes:

- (1) These motors are not readily available from stock; must be created through our Mod Shop.
- (2) Please allow 4-6 weeks for delivery if source motor is available for modification.
- (3) All data subject to change without notice.