

VERTICAL HOLLOW SHAFT TEFC HIGH THRUST with "P" BASE - LOW VOLTAGE



AEEHNNH, (MAX-VHP™) NEMA PREMIUM [VHTP]

Effective 07-01-18
Supersedes 03-24-17



APPLICATIONS:

- Deep Well Turbine Pumps
- Irrigation
- Water/Wastewater

FEATURES:

- Output Range: 15 - 800 HP
- Speed: 1800 & 1200 RPM
- Enclosure: Totally Enclosed Fan Cooled (IP55)
- Voltage: 230/460V (Usable on 208V); 150HP and Larger is 460V Only
- 230/460V Motors Suitable for Partial Winding Start (at 230V Only)⁽³⁾
- Three Phase, 60 Hz, 1.15 Service Factor (Continuous on Sine Wave Power)
- CSA Certified for Class I, Div. 2, Group B, C, D - Temp Code T3 Minimum
- Inverter Duty (PWM) per NEMA® MG-1 Part 31 at 1.0 Service Factor
- New Dual Column (60/50 Hz) Design Nameplate as Standard; 50 Hz Data 190/380V at 1.0 S.F.
- Standard Features: Coupling w/ Gib Key, Non-Sparking Ball Type NRR, Drip/Splash Cover, Space Heaters (120V)
- 5000 Frames and Above also include Mounting Provisions for bearing RTD's and Insulated Bearing Housing
- CSA Certified for Class I, Div. 2, Groups B,C, D; Temp Code T3 minimum
- Class F Insulation with Phenolic Alkyd Resin Varnish
- Class B Temperature Rise
- NEMA Design B Torques
- Oversized Main Conduit Box Rotatable in 90 Degree Increments - Fully Gasketed with NPT Threaded Entrance
- Cast Iron Conduit Box for F#449TP and Below; Steel Plate Conduit Box for F#5000
- Designed for 40°C Ambient Temperature⁽¹⁾
- Designed for 3300 ft. Elevation⁽²⁾
- Counterclockwise (CCW) Rotation; Viewed from Top
- Cast Iron Frame & End Brackets
- 1045 Hollow Carbon Steel Shaft
- Aluminum Die Cast Squirrel Cage Rotor Construction
- Paint System: Phenolic Rust Proof Base Plus Polyurethane Top Coat
- Paint Color: Blue - Munsell 5PB 3/8
- Guide Bearings: 254 - 286TP frames are Grease Pre-packed Double Shielded Bearings (MULTEMP SRL)
324TP - 5810P frames are Re-Greasable (Mobil Polyrex EM)
- Thrust Bearings: 254 - 365TP frames are Re-Greasable Angular Contact (Mobil Polyrex EM);
404 - 449TP frames are Oil Lubricated Angular Contact; F#5000 & Above with Spherical Roller or Angular Contact
- Oil Sight Glass for 324TP Frames and Above
- Oil Requirements: 300 S.S.U. @ 100°F
- Grounding Terminal Inside Main Box
- Stainless Steel Nameplate
- 12 Leads (PWS on 230V) on 213 - 405TP; (3) Suitable for Wye/Delta Start at 230V or 460V.
6 Leads on 444TP to 449TP; 5000 Frames and Above with Connection Studs⁽⁴⁾
- Suitable for Inverter Use per NEMA MG-1 Part 31.4.4.2 10:1 Variable Torque with NRR; 20:1 Variable Torque without NRR Using Braking in VFD 10:1 Constant Torque
- Precautions should be taken to eliminate or reduce shaft currents that may be imposed on the motor by VFD as stated per NEMA MG-1 Part 31.

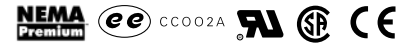
EXTRAS/ OPTIONS:

Please refer to pages 147 - 154 which show 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) Suitable for Wye/Delta start at 230V or 460V.
- (4) Suitable for Wye/Delta start at 460V.

MAX-VHP™ VERTICAL HOLLOW SHAFT TEFC



AEENH, (MAX-VHP™) NEMA PREMIUM [VHTP]

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



CAT. NO.	HP	RPM	FRAME	FL EFF (%)	FL PF (%)	FL AMPS @ 460V	DOWN THRUST (lbs.)	BD DIM (in.)	CD DIM (in.)	BX DIM (in.)	APPROX. SHIPPING WT. (lbs.)
VHTP0154	15	1800	254TP	92.4	88.0	17.3	3,350	10	22.36	1.001	350
VHTP0156	15	1200	284TP	92.4	83.5	16.4	3,850	10	24.01	1.188	460
VHTP0158	15	900	286TP	90.2	78.0	39.9	4,400	10	25.50	1.188	516
VHTP0204	20	1800	256TP	93.0	87.5	23.0	3,350	10	24.10	1.001	450
VHTP0206	20	1200	286TP	91.7	84.0	22.1	3,850	10	25.51	1.188	550
VHTP0208	20	900	324TP	91.0	81.0	50.8	6,000	16.5	27.59	1.188	550
VHTP0254	25	1800	284TP	93.6	86.0	29.1	3,350	10	24.01	1.188	520
VHTP0256	25	1200	324TP	93.0	83.0	26.9	5,200	16.5	27.60	1.188	725
VHTP0258	25	900	326TP	91.0	80.0	64.3	6,000	16.5	29.08	1.188	743
VHTP0304	30	1800	286TP	93.6	87.5	34.3	3,350	10	25.51	1.188	558
VHTP0306	30	1200	326TP	93.0	80.5	32.3	5,200	16.5	29.09	1.188	725
VHTP0308	30	900	364TP	93.0	78.0	77.4	7,500	16.5	30.26	1.188	915
VHTP0404	40	1800	324TP	94.1	86.0	46.3	4,500	16.5	27.60	1.188	720
VHTP0406	40	1200	364TP	94.1	86.5	42.3	6,600	16.5	30.26	1.188	898
VHTP0408	40	900	365TP	93.0	78.0	103.0	7,500	16.5	31.24	1.188	1001
VHTP0504	50	1800	326TP	94.5	87.0	57.0	4,500	16.5	29.09	1.188	780
VHTP0506	50	1200	365TP	94.1	86.0	53.0	6,600	16.5	31.24	1.188	1,025
VHTP0508	50	900	404TP	93.0	81.0	124.0	10,500	16.5	38.87	1.501	1,340
VHTP0604	60	1800	364TP	95.0	86.5	68.5	6,000	16.5	30.26	1.188	900
VHTP0606	60	1200	404TP	94.5	87.0	63.0	9,000	16.5	38.87	1.501	1,210
VHTP0608	60	900	405TP	93.0	81.0	149.0	10,500	16.5	40.38	1.501	1,499
VHTP0754	75	1800	365TP	95.4	86.5	85.0	6,000	16.5	31.24	1.188	970
VHTP0756	75	1200	405TP	94.5	86.5	78.5	9,000	16.5	40.39	1.501	1,340
VHTP1004	100	1800	405TP	95.4	87.5	112	7,900	16.5	40.39	1.501	1,415
VHTP1006	100	1200	444TP	95.0	79.8	123	10,100	16.5	43.03	1.501	1,990
VHTP1254	125	1800	444TP	95.4	85.6	143	8,900	16.5	43.03	1.501	2,020
VHTP1256	125	1200	445TP	95.0	79.0	155	10,100	16.5	45.00	1.501	2,080
VHTP1504	150	1800	445TP	95.8	88.0	166	8,900	16.5	45.00	1.501	2,120
VHTP1506	150	1200	447TP	95.8	77.2	189	11,500	20	45.94	1.688	2,540
VHTP2004	200	1800	447TP	96.2	82.5	235	10,100	20	45.94	1.688	2,470
VHTP2006	200	1200	449TP	95.8	76.6	254	11,500	20	53.94	2.126	2,780
VHTP2504	250	1800	449TP	96.2	83.1	292	10,100	20	53.94	2.126	2,820
VHTP2506	250	1200	449TP	95.8	74.3	328	11,500	20	53.94	2.126	2,970
VHTP3004	300	1800	449TP	96.2	83.1	351	10,100	20	53.94	2.126	3,540
VHTP3006	300	1200	5009P	95.8	84.8	345	12,400	24.5	57.20	2.188	3,800
VHTP3504	350	1800	5009P	96.2	86.3	394	10,800	24.5	57.20	2.188	4,020
VHTP3506	350	1200	5808P	95.8	80.6	424	20,400	30.5	62.09	2.376	5,700
VHTP4004	400	1800	5009P	96.2	86.6	449	10,800	24.5	57.20	2.188	4,200
VHTP4006	400	1200	5808P	95.8	80.9	482	20,400	30.5	62.09	2.376	5,950
VHTP4504	450	1800	5808P	96.2	84.0	521	10,100	30.5	62.09	2.376	5,990
VHTP4506	450	1200	5808P	95.8	80.2	547	20,400	30.5	62.09	2.376	6,150
VHTP5004	500	1800	5808P	96.2	84.0	578	10,100	30.5	62.09	2.376	6,210
VHTP5006	500	1200	5808P	95.8	81.2	601	20,400	30.5	62.09	2.376	6,600
VHTP6004	600	1800	5810P	96.2	84.0	694	10,100	30.5	67.20	2.376	6,680
VHTP6006	600	1200	5810P	95.8	81.7	717	20,400	30.5	67.20	2.376	7,090
VHTP7004	700	1800	5810P	96.2	85.0	800	10,100	30.5	67.20	2.376	7,070
VHTP7006	700	1200	5810P	95.8	81.3	840	20,400	30.5	67.2	2.376	8,670
VHTP8004	800	1800	5810P	96.2	86.0	904	10,100	30.5	67.20	2.376	9,220

Notes:

- (1) See page 126 in order to confirm the TWMC standard coupling size is suitable for customer requirements or to select an alternate coupling size. Required coupling size must be noted on all vertical hollow shaft motor orders. Coupling will be changed out prior to shipping if a non-TWMC standard coupling size is needed.
- (2) All data subject to change without notice.