



NEMA Premium Efficient Vertical Hollow-shaft Motors

型号与性能数据 Ratings and Performance

特征 FEATURES

- F级绝缘，B级温升考核
Class F Insulation , Class B Rise at Full Load
- 1.15使用系数（电源正弦波）
1.15 Service Factor (Sine Wave Power)
- 最高环境温度40℃，最高海拔3300英尺
Maximun 40℃ Ambient , 3300 Feet Altitude
- 防护等级：气候防护I型
The Werther Protected Type 1 (WP1)
- 230/460伏电压电机适用于230伏电压时部分绕组启动
230/460 Volt Motors Suitable For 230 Volt Part Winding Start
- 380~415电压电机适用于星/三角启动
380~415 Volt Suitable For Wye-Delta Start
- NEMA Premium超高效率设计
NEMA Premium Efficient Design
- 防逆转棘轮装置
NRR=Non-Reverse Ratchet

型号与性能数据 Ratings and Performance

380~415 VOLTS 50HERTZ(P1), 208~230/460 VOLTS 60 HERTZ(P2), 380~415 VOLTS 60HERTZ(P3), 3 PHASE, PREMIUM EFFICIENT

额定功率 Rated Output (hp)	转速 RPM	额定电压 Voltage (V)	型号 Type	使用 系数 SF	额定电流 Full Load Current (A)	堵转电流 Locked Rotor Current (A)	堵转转矩 Locked Rotor Torque (Lb-ft)	效率 Effici- ency (%)	堵转代码 Nema Code Letter	转矩倍数 Torque		轴向推力 Dow thrust		防护等级 Degree of protection
										Locked Rotor	Break Down	Standard (Lb)	Extra (Lb)	
15	1500	380~415	VHS254TP-4-015P1	1.15	21.4~20.2	138	53	93.0	H	170	200	3200	3200	IP23 (WP-1)
	1800	208~230/460	VHS254TP-4-015P2	1.15	38.6~35.7/17.9	112	44.7	93.0	G	170	200	3200	3200	
	1800	380~415	VHS254TP-4-015P3	1.15	21.4~20.2	124	44.7	93.0	G	170	200	3200	3200	
20	1500	380~415	VHS256TP-4-020P1	1.15	28.0~26.1	175	72	93.0	H	170	200	3200	3200	
	1800	208~230/460	VHS256TP-4-020P2	1.15	51.7~48.4/24.2	143	59.7	93.0	G	170	200	3200	3200	
	1800	380~415	VHS256TP-4-020P3	1.15	28.3~26.2	158	59.7	93.0	G	170	200	3200	3200	
25	1500	380~415	VHS284TP-4-025P1	1.15	34.7~32.4	220	89	93.6	H	160	200	3200	3200	
	1800	208~230/460	VHS284TP-4-025P2	1.15	63.6~58.6/29.3	180	74	93.6	G	160	200	3200	3200	
	1800	380~415	VHS284TP-4-025P3	1.15	34.8~32.2	199	74	93.6	G	160	200	3200	3200	
30	1500	380~415	VHS286TP-4-030P1	1.15	41.4~38.7	261	107	94.1	H	160	200	3200	3200	
	1800	208~230/460	VHS286TP-4-030P2	1.15	76.3~70.2/35.1	215	89.2	94.1	G	160	200	3200	3200	
	1800	380~415	VHS286TP-4-030P3	1.15	41.2~38.3	238	89.2	94.1	G	160	200	3200	3200	
40	1500	380~415	VHS324TP-4-040P1	1.15	55.1~51.8	352	143	94.1	H	160	200	5500	8800	
	1800	208~230/460	VHS324TP-4-040P2	1.15	102.1~98.3/49.1	285	119	94.1	G	160	200	5500	8800	
	1800	380~415	VHS324TP-4-040P3	1.15	54.9~51.2	315	119	94.1	G	160	200	5500	8800	
50	1500	380~415	VHS326TP-4-050P1	1.15	67.9~63.5	438	179	94.5	H	160	200	5500	8800	
	1800	208~230/460	VHS326TP-4-050P2	1.15	124.5~113.9/56.9	360	149	94.5	G	160	200	5500	8800	
	1800	380~415	VHS326TP-4-050P3	1.15	68.1~63.1	399	149	94.5	G	160	200	5500	8800	
60	1500	380~415	VHS364TP-4-060P1	1.15	82.1~76.7	525	212	95.0	H	150	200	5600	8960	
	1800	208~230/460	VHS364TP-4-060P2	1.15	148.4~136.7/68.4	430	177	95.0	G	150	200	5600	8960	
	1800	380~415	VHS364TP-4-060P3	1.15	81.3~75.2	476	177	95.0	G	150	200	5600	8960	



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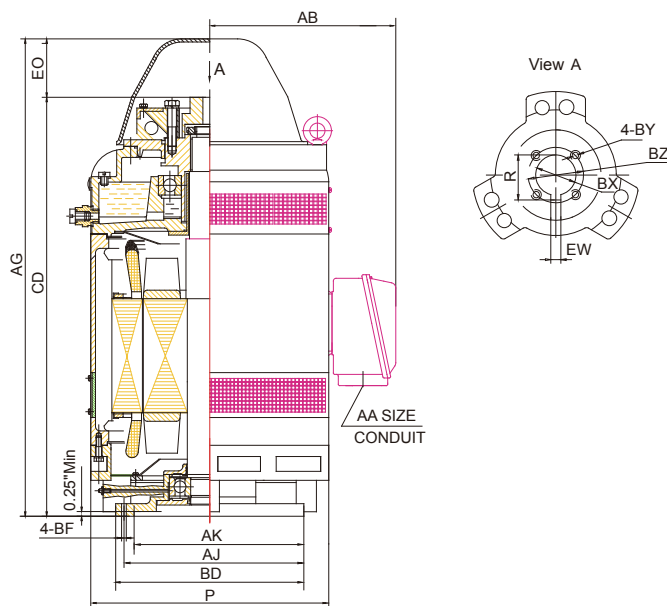
型号与性能数据 Ratings and Performance

380~415 VOLTS 50HERTZ(P1), 208~230/460 VOLTS 60 HERTZ(P2), 380~415 VOLTS 60HERTZ(P3), 3 PHASE, PREMIUM EFFICIENT

额定功率 Rated Output (hp)	转速 RPM	额定电压 Voltage (V)	型号 Type	使用 系数 SF	额定电流 Full Load Current (A)	堵转电流 Locked Rotor Current (A)	堵转转矩 Locked Rotor Torque (Lb-ft)	效率 Efficiency (%)	堵转代码 Nema Code Letter	转矩倍数 Torque		轴向推力 Downthrust		防护等级 Degree of protection
										Locked Rotor	Break Down	Standard (Lb)	Extra (Lb)	
75	1500	380~415	VHS365TP-4-075P1	1.15	102.6~95.8	658	266	95.0	H	150	200	5600	8960	IP23 (WP-1)
	1800	208~230/460	VHS365TP-4-075P2	1.15	187.5~172.5/86.3	541	222	95.0	G	150	200	5600	8960	
	1800	380~415	VHS365TP-4-075P3	1.15	101.9~94.4	599	222	95.0	G	150	200	5600	8960	
100	1500	380~415	VHS404TP-4-100P1	1.15	135.3~124.3	880	356	95.4	H	140	200	6700	10750	
	1800	208~230/460	VHS404TP-4-100P2	1.15	244.7~227.5/113.7	723	297	95.4	G	140	200	6700	10750	
	1800	380~415	VHS404TP-4-100P3	1.15	134.3~123.9	801	297	95.4	G	140	200	6700	10750	
125	1500	380~415	VHS405TP-4-125P1	1.15	169.5~154.2	1102	443	95.4	H	140	200	6700	10750	
	1800	208~230/460	VHS405TP-4-125P2	1.15	305.9~279.5/139.7	905	370	95.4	G	140	200	6700	10750	
	1800	380~415	VHS405TP-4-125P3	1.15	167.4~154.5	1003	370	95.4	G	140	200	6700	10750	
150	1500	380~415	VHS444TP-4-150P1	1.15	200.1~184.0	1315	532	95.8	H	130	200	8000	12800	
	1800	208~230/460	VHS444TP-4-150P2	1.15	365.0~339.8/169.9	1083	443	95.8	G	130	200	8000	12800	
	1800	380~415	VHS444TP-4-150P3	1.15	199.6~184.5	1200	443	95.8	G	130	200	8000	12800	
200	1500	380~415	VHS445TP-4-200P1	1.15	269.5~249.1	1760	708	95.8	H	120	200	8000	12800	
	1800	208~230/460	VHS445TP-4-200P2	1.15	486.8~446.3/223.1	1448	590	95.8	G	120	200	8000	12800	
	1800	380~415	VHS445TP-4-200P3	1.15	268.0~245.9	1605	590	95.8	G	120	200	8000	12800	
250	1500	380~415	VHS445TP-4-250P1	1.15	336.9~318.6	2316	886	95.8	H	120	175	8000	12800	
	1800	208~230/460	VHS445TP-4-250P2	1.15	609.2~555.3/277.7	1823	738	95.8	G	120	175	8000	12800	
	1800	380~415	VHS445TP-4-250P3	1.15	333.5~307.1	2020	738	95.8	G	120	175	8000	12800	
300	1500	380~415	VHS447TP-4-300P1	1.15	398.8~369.3	2766	1058	95.8	H	110	175	8000	12800	
	1800	416~460	VHS447TP-4-300P2	1.15	364.3~329.5	2198	882	95.8	G	110	175	8000	12800	
	1800	380~415	VHS447TP-4-300P3	1.15	398.8~365.2	2436	882	95.8	G	110	175	8000	12800	
300	1500	380~415	VHS5006P-4-300P1	1.15	396.6~363.1	2766	1058	95.8	H	110	175	8750	14000	
	1800	416~460	VHS5006P-4-300P2	1.15	362.3~327.6	2198	882	95.8	G	110	175	8750	14000	
	1800	380~415	VHS5006P-4-300P3	1.15	396.6~363.1	2436	882	95.8	G	110	175	8750	14000	
350	1500	380~415	VHS5006P-4-350P1	1.15	462.7~423.7	3241	1235	95.8	H	100	175	8750	14000	
	1800	416~460	VHS5006P-4-350P2	1.15	422.6~382.2	2549	1029	95.8	G	100	175	8750	14000	
	1800	380~415	VHS5006P-4-350P3	1.15	462.7~423.7	2825	1029	95.8	G	100	175	8750	14000	
400	1500	380~415	VHS5008P-4-400P1	1.15	528.8~484.2	3700	1411	95.8	H	100	175	8750	14000	
	1800	416~460	VHS5008P-4-400P2	1.15	483.0~436.8	2898	1176	95.8	G	100	175	8750	14000	
	1800	380~415	VHS5008P-4-400P3	1.15	528.8~484.2	3212	1176	95.8	G	100	175	8750	14000	
450	1500	380~415	VHS5008P-4-450P1	1.15	595.1~542.4	4143	1588	96.2	H	100	175	8750	14000	
	1800	416~460	VHS5008P-4-450P2	1.15	541.1~489.4	3249	1323	96.2	G	100	175	8750	14000	
	1800	380~415	VHS5008P-4-450P3	1.15	592.4~542.4	3601	1323	96.2	G	100	175	8750	14000	
500	1500	380~415	VHS5008P-4-500P1	1.15	661.9~606.1	4628	1765	96.2	H	100	175	8750	14000	
	1800	416~460	VHS5008P-4-500P2	1.15	601.3~543.8	3623	1470	96.2	G	100	175	8750	14000	
	1800	380~415	VHS5008P-4-500P3	1.15	658.2~602.7	4015	1470	96.2	G	100	175	8750	14000	



外形与安装尺寸 Mounting and Overall Dimensions



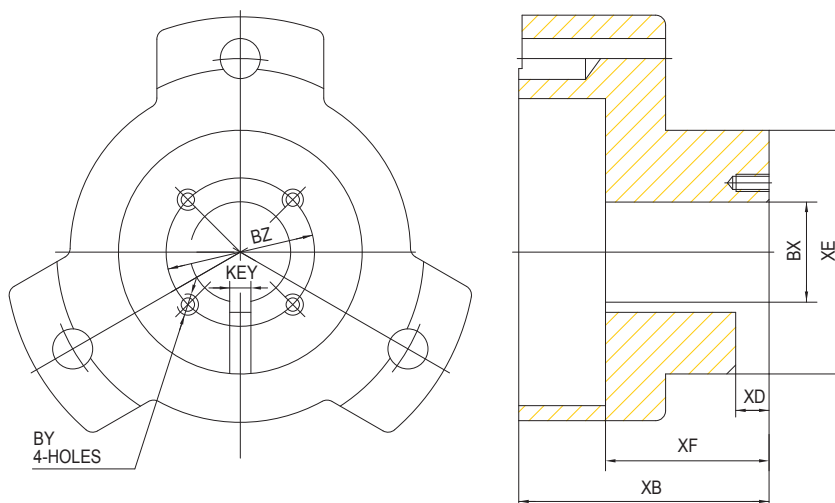
外形与安装尺寸 Mounting and Overall Dimensions

380~415 VOLTS 50HERTZ(P1), 208~230/460 VOLTS 60 HERTZ(P2), 380~415 VOLTS 60HERTZ(P3), 3 PHASE, PREMIUM EFFICIENT

额定功率 Rated Output (hp)	型号 Type	安装尺寸 Mounting Dimensions(inch)												外形尺寸 Overall Dimensions(inch)		
		BD	AJ	AK	BF	BX	BZ	EW	R	BY	CD	EO>	AA	P	AB	AG
15	VHS254TP-4-015P1(P2,P3)	10	9.125	8.25	0.44	1	1.38	0.25	1.13	10-32	23.38	3.22	1.5	16.1	11.6	28.1
20	VHS256TP-4-020P1(P2,P3)	10	9.125	8.25	0.44	1	1.38	0.25	1.13	10-32	23.38	3.22	1.5	16.1	11.6	28.1
25	VHS284TP-4-025P1(P2,P3)	10	9.125	8.25	0.44	1	1.38	0.25	1.13	10-32	24.75	3.22	1.5	16.1	11.6	29.5
30	VHS286TP-4-030P1(P2,P3)	10	9.125	8.25	0.44	1	1.38	0.25	1.13	10-32	24.75	3.22	1.5	16.1	11.6	29.5
40	VHS324TP-4-040P1(P2,P3)	16.5	14.75	13.5	0.69	1.25	1.75	0.25	1.367	1/4-20	28.22	4.22	3	17.3	12.7	32.7
50	VHS326TP-4-050P1(P2,P3)	16.5	14.75	13.5	0.69	1.25	1.75	0.25	1.367	1/4-20	28.22	4.22	3	17.3	12.7	32.7
60	VHS364TP-4-060P1(P2,P3)	16.5	14.75	13.5	0.69	1.25	1.75	0.25	1.367	1/4-20	31.16	4.56	3	19.1	14.4	36.0
75	VHS365TP-4-075P1(P2,P3)	16.5	14.75	13.5	0.69	1.25	1.75	0.25	1.367	1/4-20	31.16	4.56	3	19.1	14.4	36.0
100	VHS404TP-4-100P1(P2,P3)	16.5	14.75	13.5	0.69	1.5	2.125	0.375	1.668	1/4-20	36.94	4.56	3	21	15.2	42.2
125	VHS405TP-4-125P1(P2,P3)	16.5	14.75	13.5	0.69	1.5	2.125	0.375	1.668	1/4-20	36.94	4.56	3	21	15.2	42.2
150	VHS444TP-4-150P1(P2,P3)	16.5	14.75	13.5	0.69	1.69	2.5	0.375	1.854	1/4-20	42.66	5	3	23.3	18.1	47.7
200	VHS445TP-4-200P1(P2,P3)	16.5	14.75	13.5	0.69	1.69	2.5	0.375	1.854	1/4-20	42.66	5	3	23.3	18.1	47.7
250	VHS445TP-4-250P1(P2,P3)	16.5	14.75	13.5	0.69	1.69	2.5	0.375	1.854	1/4-20	42.66	5	3	23.3	18.1	47.7
300	VHS447TP-4-300P1(P2,P3)	20	14.75	13.5	0.69	1.938	2.5	0.5	2.16	1/4-20	49.75	5	3.5	23.3	18.1	54.8
300	VHS5006P-4-300P1(P2,P3)	20	14.75	13.5	0.69	1.938	2.5	0.5	2.16	1/4-20	49.75	6	3.5	26.7	27.5	56.1
350	VHS5006P-4-350P1(P2,P3)	20	14.75	13.5	0.69	1.938	2.5	0.5	2.16	1/4-20	49.75	6	3.5	26.7	27.5	56.1
400	VHS5008P-4-400P1(P2,P3)	24.5	14.75	13.5	0.69	2.188	3.25	0.5	2.41	3/8-16	53.88	6	3.5	26.7	27.5	60.2
450	VHS5008P-4-450P1(P2,P3)	24.5	14.75	13.5	0.69	2.188	3.25	0.5	2.41	3/8-16	53.88	6	3.5	26.7	27.5	60.2
500	VHS5008P-4-500P1(P2,P3)	24.5	14.75	13.5	0.69	2.188	3.25	0.5	2.41	3/8-16	53.88	6	3.5	26.7	27.5	60.2



联轴器 Drive Couplings



联轴器尺寸 Drive Couplings Dimensions

机座号 Frame	联轴器编号 Coupling Number	BX		BY	BZ	XB	XD	XE	XF	SQ.KEY
		Nominal	Actual							
254TP,256TP,284TP,286TP	255038	1	1.001	10-32	1-3/8	2-9/16	13/32	2-1/4	1-5/8	1/4
	255054	1-3/16	1.188	1/4-20	1-3/4	2-9/16	13/32	2-1/4	1-5/8	1/4
	255061	1-1/4	1.251	1/4-20	1-3/4	2-9/16	13/32	2-1/4	1-5/8	1/4
324TP,326TP,364TP,365TP	255064	1	1.001	10-32	1-3/8	2-15/16	13/32	2-7/8	1-15/16	1/4
	255055	1-3/16	1.188	1/4-20	1-3/4	2-15/16	13/32	2-7/8	1-15/16	1/4
	255035	1-1/4	1.251	1/4-20	1-3/4	2-15/16	13/32	2-7/8	1-15/16	1/4
	255057	1-1/2	1.501	1/4-20	2-1/8	2-15/16	17/32	2-7/8	1-15/16	3/8
404TP,405TP	255062	1-3/16	1.188	1/4-20	1-3/4	3-19/32	13/32	3-1/8	2-13/32	1/4
	255063	1-1/4	1.251	1/4-20	1-3/4	3-19/32	13/32	3-1/8	2-13/32	1/4
	255033	1-1/2	1.501	1/4-20	2-1/8	3-19/32	17/32	3-1/8	2-13/32	3/8
	255067	1-11/16	1.688	1/4-20	2-1/2	3-19/32	17/32	3-11/16	2-13/32	3/8
	255058	1-15/16	1.938	1/4-20	2-1/2	3-19/32	11/16	3-11/16	2-13/32	1/2
444TP,445TP,447TP	255068	1-3/16	1.188	1/4-20	1-3/4	4-3/16	13/32	3-11/16	2-7/8	1/4
	255069	1-1/4	1.251	1/4-20	1-3/4	4-3/16	13/32	3-11/16	2-7/8	1/4
	255056	1-1/2	1.501	1/4-20	2-1/8	4-3/16	17/32	3-11/16	2-7/8	3/8
	255031	1-11/16	1.688	1/4-20	2-1/2	4-3/16	17/32	3-11/16	2-7/8	3/8
	255032	1-15/16	1.938	1/4-20	2-1/2	4-3/16	11/16	3-11/16	2-7/8	1/2
5006P,5008P	255044	1-11/16	1.688	1/4-20	2-1/2	4-3/8	17/32	4-3/4	3-1/16	3/8
	255041	1-15/16	1.938	1/4-20	2-1/2	4-3/8	11/16	4-3/4	3-1/16	1/2
	255072	2-3/16	2.188	3/8-16	3-1/4	4-3/8	11/16	4-3/4	3-1/16	1/2