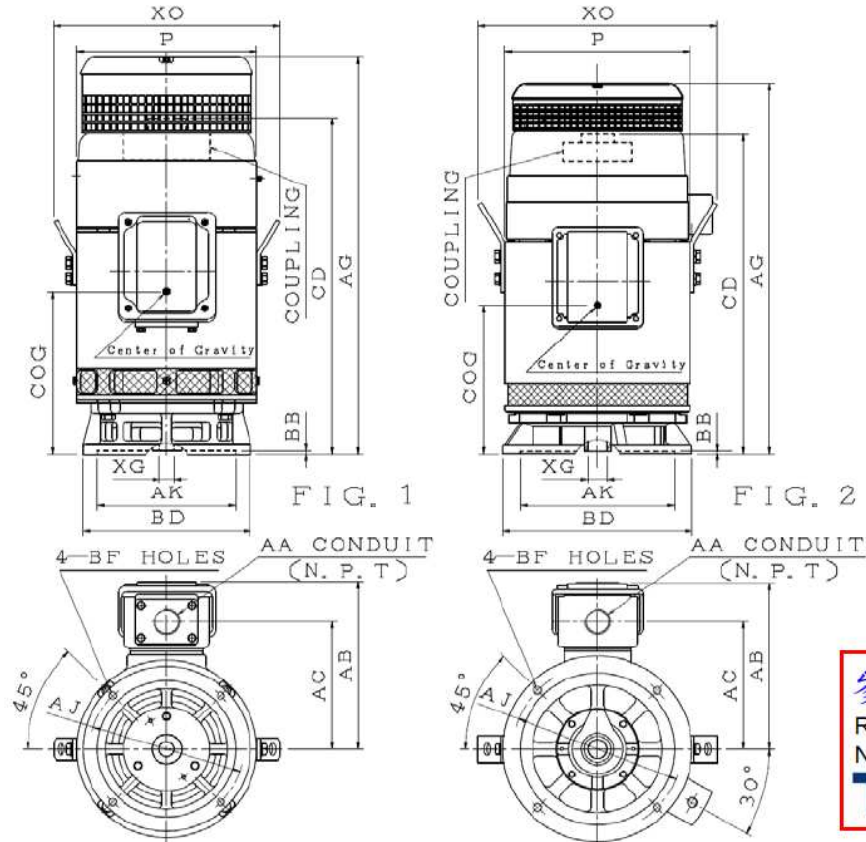


ISSUED 5-Feb-09	OUTLINE DIMENSIONS SHEET	MODEL AMRC--S AMRCNH-S
REVISED 1-Jun-17		HIGH THRUST HOLLOWSHAFT PUMP MOTORS FRAME SIZE 213TP ~ 405TP

Vertical, Weather Protected Type I (WP I), Squirrel - Cage Rotor.



Dimension in inches

Output (HP)			FRAME SIZE	FIG. NO.	AG	CD	P	XG	XO	Mounting					Terminal Housing		
2P	4P	6P								AJ	AK	BB	BD	BF	AA	AB	AC
10	7.5	3	213TP	1	22.32	20.25	10.74	1.122	13.47	9.125	8.25	0.22	10.00	0.44	1"	10.12	7.68
15	10	5	215TP	1	26.91	23.38	12.95	1.378	17.68	9.125	8.25	0.25	10.00	0.44	1 1/4"	11.30	8.86
20	15	7.5	254TP	1	26.91	23.38	12.95	1.378	17.68	9.125	8.25	0.25	10.00	0.44	1 1/4"	11.30	8.86
25	20	10	256TP	1	26.91	23.38	12.95	1.378	17.68	9.125	8.25	0.25	10.00	0.44	1 1/4"	11.30	8.86
30	25	15	284TP	1	28.25	24.75	14.53	1.378	19.25	9.125	8.25	0.25	10.00	0.44	1 1/2"	14.58	11.18
40	30	20	286TP	1	28.25	24.75	14.53	1.378	19.25	9.125	8.25	0.25	10.00	0.44	1 1/2"	14.58	11.18
50	40	25	324TP	2	32.71	28.22	16.14	1.653	20.87	14.75	13.50	0.28	16.50	0.69	3"	14.72	11.30
60	50	30	326TP	2	32.71	28.22	16.14	1.653	20.87	14.75	13.50	0.28	16.50	0.69	3"	14.72	11.30
75	60	40	364TP	2	35.89	31.16	17.52	1.653	22.40	14.75	13.50	0.28	16.50	0.69	3"	16.81	12.80
100	75	50	365TP	2	35.89	31.16	17.52	1.653	22.40	14.75	13.50	0.28	16.50	0.69	3"	16.81	12.80
125	100	60	404TP	2	42.32	36.94	19.69	2.000	24.88	14.75	13.50	0.28	16.50	0.69	3"	19.41	14.76
150	125	75	405TP	2	42.32	36.94	19.69	2.000	24.88	14.75	13.50	0.28	16.50	0.69	3"	19.41	14.76

FRAME SIZE	BEARING		APPROX WEIGHT lbs	COG	RCF
	LOWER END	UPPER END			
213TP	6209ZC3	7310B	197	9.84	119.0
215TP			209		
254TP	6309ZC3	7311B	303	11.81	92.3
256TP			324		
284TP	6311ZC3	7312B	417	12.61	77.1
286TP			456		
324TP	6312C3	* 7220B	622	14.17	80.6
326TP			675		
364TP	6313C3	* 7222B	775	14.8	71.2
365TP			860		
404TP	6315C3	* 7222B	1073	16.93	58.6
405TP			1135		
404TP	6315C3	* 7322B	1111	16.93	57.6
405TP			1215		

- Note :
1. Dimension AK tolerance :
For 8.250 inches +0.003 inches , -0.000 inches,
For 13.500 inches +0.005 inches , -0.000 inches.
 2. For Coupling As DWG No. 31057D67621
 3. With Non-Reverse Ratchet Mechanism .(Ball Type)
 4. Rotating Direction : Counter-Clock-Wise (View From Top Side).
 5. *Marked Bearings Is Oil Lubricated , The Other is Grease Lubricated .

APPD.	Tsunghao	3-Jun-17	TECO Electric & Machinery Co., Ltd.	DWG NO.	31057D67620
CHKD.	Tsunghao	3-Jun-17		REV. 04	
DWN.	REX	1-Jun-17			

ISSUED 2-Feb-09	PERFORMANCE DATA HIGH THRUST HOLLOWSHAFT PUMP MOTOR LOW VOLTAGE SQUIRREL CAGE	MODEL AMRC---S
REVISED 10-Sep-16		

WP I, NEMA T-FRAME, DESIGN - B,
CLASS F, 40°C AMBIENT, CONTINUOUS DUTY,
S.F. 1.15 3 ϕ 230/460V 60HZ



TYPICAL PERFORMANCE

(230V)

HP	FULL LOAD RPM	FRAME SIZE	EFFICIENCY(%)				POWER FACTOR(%)			CURRENT		TORQUE				ROTOR Wk ² lb-ft ²	DOWN THRUST lbs	NEMA CODE LETTER
			FULL LOAD		3/4 LOAD	1/2 LOAD	FULL LOAD	3/4 LOAD	1/2 LOAD	FULL LOAD (A)	LOCKED ROTOR (A)	FULL LOAD lb-ft	LOCKED ROTOR %FLT	PULL UP %FLT	BREAK DOWN %FLT			
			NOM.	MIN.														
3	1170	213TP	86.5	84.0	86.0	83.5	71.0	63.0	50.0	9.15	64.0	13.46	215	200	315	0.573	2950	K
5	1170	215TP	87.5	85.5	87.0	85.0	72.0	64.0	51.0	14.9	92.0	22.44	210	195	310	0.775	2950	J
7.5	1745	213TP	88.5	86.5	89.0	89.0	85.0	80.0	69.0	18.7	127	22.57	205	175	255	0.609	2600	H
	1165	254TP	88.5	86.5	88.5	87.5	81.0	76.5	66.0	19.6	127	33.80	230	185	240	2.033	3850	H
10	3490	213TP	88.5	86.5	89.0	88.5	88.0	85.5	79.5	24.0	162	15.04	225	180	270	0.372	2000	H
	1740	215TP	89.5	87.5	90.5	90.5	86.5	82.0	72.5	24.2	162	30.18	215	190	260	0.783	2600	H
15	1170	256TP	90.2	88.5	91.0	90.5	81.0	76.5	65.5	25.6	162	44.88	260	210	250	2.859	3850	H
	3495	215TP	89.5	87.5	90.0	89.5	87.5	85.5	79.0	35.9	232	22.53	210	180	250	0.507	2000	G
20	1760	254TP	91.0	89.5	91.5	91.5	88.0	85.5	78.0	35.1	232	44.75	210	160	245	1.862	3350	G
	1175	284TP	90.2	88.5	91.0	90.5	83.0	79.0	70.0	37.5	232	67.03	225	185	235	5.854	3850	G
25	3505	254TP	90.2	88.5	90.5	90.0	91.0	90.0	85.0	45.6	290	29.96	190	140	230	0.872	2700	G
	1755	256TP	91.0	89.5	92.0	92.0	88.0	86.0	79.0	46.8	290	59.83	210	160	230	2.174	3350	G
30	1170	286TP	91.0	89.5	91.5	91.0	84.0	81.0	73.0	49.0	290	89.75	205	170	225	7.289	3850	G
	3510	256TP	91.0	89.5	92.0	91.0	91.0	91.0	86.0	56.5	365	37.40	215	150	230	1.213	2700	G
35	1755	284TP	91.7	90.2	92.0	91.5	86.0	83.5	77.0	59.4	365	74.79	205	165	230	3.372	3350	G
	1175	324TP	91.7	90.2	93.0	93.0	81.5	78.5	70.5	62.6	365	111.7	200	170	230	8.908	6000	G
40	3530	284TP	91.0	89.5	91.0	90.5	89.0	87.5	82.0	69.4	435	44.62	185	140	235	1.333	2700	G
	1760	286TP	92.4	91.0	92.5	92.0	86.5	84.0	77.0	70.3	435	89.50	220	175	230	4.169	3350	G
50	1175	326TP	92.4	91.0	93.0	93.0	80.5	77.0	67.5	75.5	435	134.1	220	190	240	10.392	6000	G
	3530	286TP	91.7	90.2	92.0	92.0	88.0	87.0	80.0	92.8	580	59.50	180	135	245	1.588	2700	G
60	1765	324TP	93.0	91.7	93.6	94.1	88.0	86.5	81.5	91.5	580	119.0	210	160	225	6.487	5700	G
	1180	364TP	93.0	91.7	93.0	92.4	83.5	80.5	73.0	96.5	580	178.0	210	180	220	14.487	6600	G
75	3555	324TP	92.4	91.0	93.0	93.0	86.0	83.0	77.0	118	725	73.80	190	160	250	2.908	4600	G
	1770	326TP	93.0	91.7	93.5	93.5	88.0	86.0	80.0	114	725	148.3	225	165	245	7.874	5700	G
100	1180	365TP	93.0	91.7	93.6	93.0	84.5	81.5	74.0	119	725	222.5	210	180	220	17.936	6600	G
	3555	326TP	93.0	91.7	93.5	93.0	87.0	85.0	78.5	139	870	88.60	190	160	260	3.590	4600	G
125	1770	364TP	93.6	92.4	93.6	93.1	84.5	81.5	73.5	142	870	178.0	200	165	230	9.783	6000	G
	1180	404TP	93.6	92.4	94.0	93.1	86.5	86.5	77.5	139	870	267.0	230	200	250	24.880	9000	G
150	3555	364TP	93.0	91.7	93.4	92.5	90.5	89.0	83.0	167	1085	110.8	160	150	250	5.870	5000	G
	1775	365TP	94.1	93.0	94.6	94.6	84.5	83.5	76.0	177	1085	221.8	200	170	240	11.739	6000	G
175	1180	405TP	93.6	92.4	94.1	93.6	86.5	85.5	79.0	173	1085	333.7	220	200	250	31.371	9000	G
	3555	365TP	93.0	91.7	93.4	93.4	90.5	88.0	84.0	222	1450	147.7	160	150	280	7.044	5000	G
200	1775	404TP	94.1	93.0	94.1	94.1	86.0	82.0	73.5	231	1450	295.8	200	180	270	19.763	7900	G
	3560	404TP	93.6	92.4	93.6	93.6	90.5	87.5	83.0	276	1815	184.4	140	120	250	8.379	5000	G
225	1775	405TP	94.5	93.6	94.1	94.1	87.5	85.0	78.0	283	1815	369.7	180	150	210	24.059	7900	G
	3560	405TP	93.6	92.4	93.6	93.6	90.5	89.0	83.5	332	2170	221.2	140	120	250	9.976	5000	G

- NOTE :
- The above are typical values based on test according to ANSI / IEEE standard 112 method B.
 - Breakdown & locked rotor torques are shown as average expected values.
 - Efficiency, power factor, speed and torque are the same for other voltages. Current values vary inversely with voltage.
 - Thrust load losses are not considered in declared efficiency .
 - Tolerance can be considered according to the NEMA MG1-12 & IEC 34-1.
 - Thrust load losses are estimated as follows : (According to NEMA standard MG1-12.7 2003).

FRAME SIZE	2 P	4, 6 P	FRAME SIZE	2 P	4, 6 P
213TP ~ 215TP	0.0076	0.0076	324TP ~ 326TP	0.0132	0.0132
254TP ~ 256TP	0.0083	0.0083	364TP ~ 365TP	0.0132	0.0132
284TP ~ 286TP	0.0090	0.0090	404TP ~ 405TP	0.0146	0.0166

UNIT : LOSS HP / 100 RPM / 1000 LB THRUST

% THRUST	100	82	74	64	58	53
Min. Life (Hrs)	8800	15000	20000	30000	40000	50000

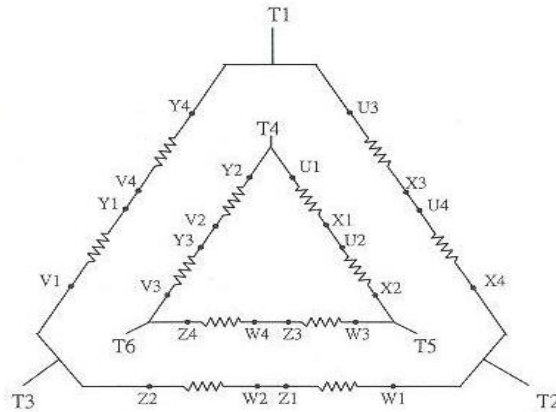
- For frame size 324TP to 365TP 175% of standard thrust load are acceptable under made-to-order
- Data are subject to change without notice.

APPD.	Tsunghao	Mar-21-16	TECO Electric & Machinery Co., Ltd.	DWG NO.	31057D67619
CHKD.	Longlin	Mar-21-16		REV. 03	
DWN.	-	-			

DATE:
January 14, 2009

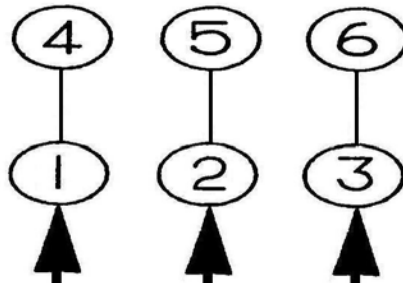
CONNECTION DIAGRAM

CATALOG NO.:



SCHEMATIC - 2Δ / Δ CONNECTION

ACROSS THE LINE OR VFD CONNECTION



LINE

460 VOLT CONNECTION

460 VOLT PART WINDING START CONNECTION

	LINE	LINE	
	460 VOLT START	460 VOLT RUN	