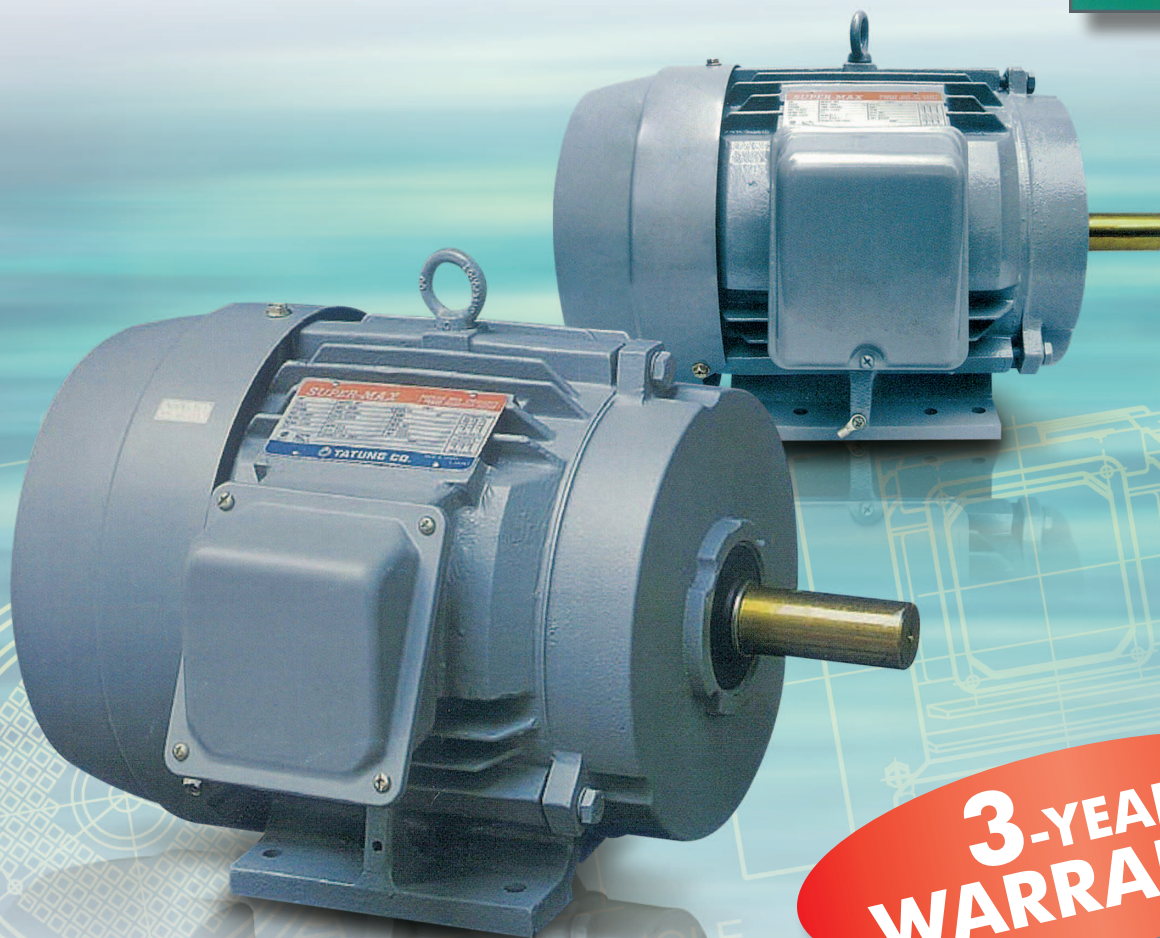
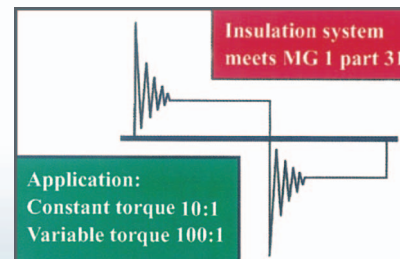


SUPER-MAX INDUCTION MOTOR

PREMIUM EFFICIENCY SERIES

CSA Certified for Class I,
Division 2 Group ABCD, T3C

TOTALLY ENCLOSED FAN COOLED
FRAME: 143T~N5807/8



**3-YEAR
WARRANTY**



TATUNG SUPERMAX-TEFC

STANDARD FEATURES

MEETS OR EXCEEDS NEMA PREMIUM EFFICIENCY

Premium grade low loss core steel reduces core loss. Longer core reduces core loss further by lowering operation flux densities. Larger rotor bar increases size of cross section for lowering conductor resistance and rotor copper loss.

INVERTER RATED

Meets NEMA MG1 part 31.
CT 10 : 1 VT 100 : 1 CH 2 : 1

FRAME AND END BRACKET

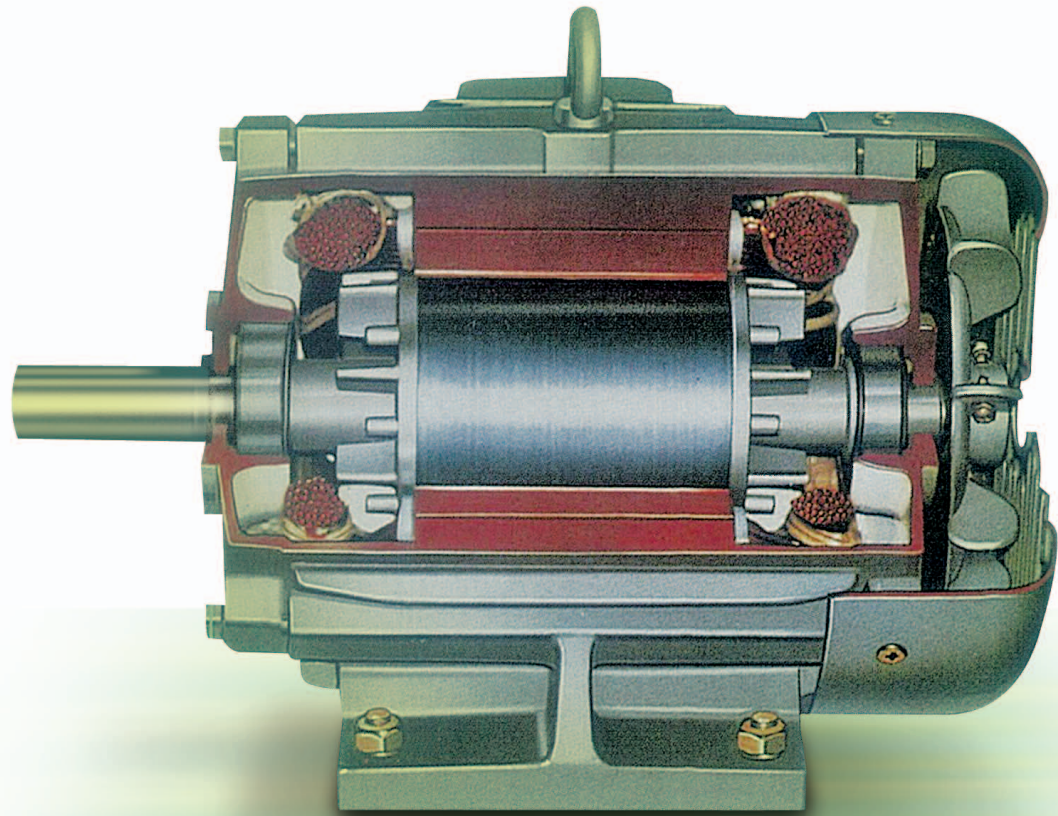
Main frame and end bracket are all cast iron for severe duty environment.

MORE COPPER IN WINDING

Using of more copper and larger conductor increases cross sectional area of stator winding. This lower resistance of the winding and reduce Losses are due to improved current flow. All windings treated with a minimum of two dips and bakes of non-hygroscopic varnish ensure reliable motor operation in humid, corrosive and abrasive industrial environment.

TYPICAL NAMEPLATE INFORMATION

SUPER-MAX										3 PHASE INDUCTION MOTOR																					
										Class 1 Division 2 Group A,B,C,D/T3C																					
HP	200	MODEL NO.		WH2002FFB				ENCL.		TEFC																					
POLE	2	MAX. AMB.		40		°C		VOLTS	460	HZ		60	CONNECTIONS <table><tr><td>T4</td><td>T7</td><td>T6</td></tr><tr><td>T8</td><td>T5</td><td>T7</td></tr><tr><td>T10</td><td>T11</td><td>T12</td></tr><tr><td>T2</td><td>T3</td><td>T1</td></tr><tr><td colspan="3">LINE</td></tr></table>				T4	T7	T6	T8	T5	T7	T10	T11	T12	T2	T3	T1	LINE		
T4	T7	T6																													
T8	T5	T7																													
T10	T11	T12																													
T2	T3	T1																													
LINE																															
FRAME	447TS	TIME RATING		CONT.				AMP.	228																						
INS. CLASS	F	DATE CODE						RPM	3560																						
NEMA DES.	B	P.F.	87.5	IP				SER.	NO.																						
NEMA CODE	G	NOM.	F.L.	95.4				BRG.	D.E	6313C3																					
S.F.	1.15	EFF.	3/4 L	95.0				NO.	O.D.E	6313C3																					
		CC014A		USABLE AT				AMP.	Wt.	2550	Lbs.																				
		MEETS NEMA MG1 PART 31				For VFD CT10:1 VT100:1																									
		50 HZ		380 V		276 A																									
		CE		IP		S®																									
		Energy Verified		TATUNG										4-56698																	



BEARING

Oversized, pre-lubricated, double shielded ball bearings are used up to 280T, and oversized, regreaseable, open bearings are used for frame 320T and larger. A high-quality, wide temperature range and rust inhibiting grease provides minimum friction losses and longer operating life. Grease pipes and relief vents with plug are provided for all open bearing construction.

CONDUIT BOX

Oversized conduit box made of fabricated steel provides ample space for connections. Diagonally split, rotatable in 90° position which allow for conduit to be received from any direction. Cast iron conduit box from 140 to 250 frame.

SHAFT SLINGER

Molded neoprene or steel slinger on drive end shaft extension to prevent entrance of moisture and rust into bearing housing.

NAMEPLATE

Permanent, long life corrosion-free stainless steel nameplate complete with connection diagram.

NON-SPARKING COOLING FAN

Increased safety external cooling fan meets non-sparking feature.

ROTOR

Die cast aluminum rotor bars with integral cast end ring and cooling fan bears better stress and vibration. Rotor and shaft assembly is dynamically balanced to assure vibration free, reliable and quiet operation.

NOISE MEET NEMA MG-1 PART 9

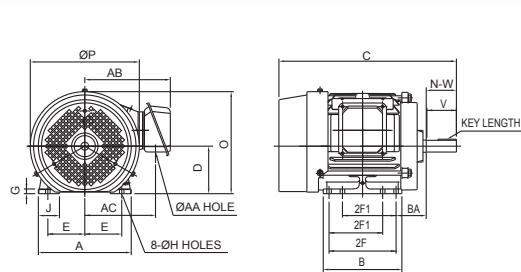


FIG.1

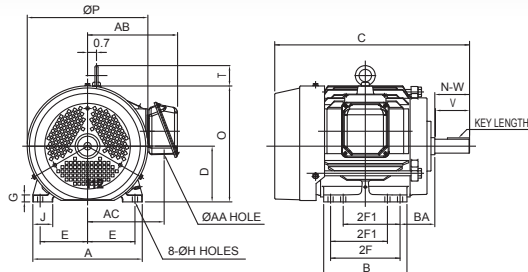


FIG.2

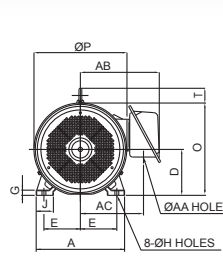


FIG.3

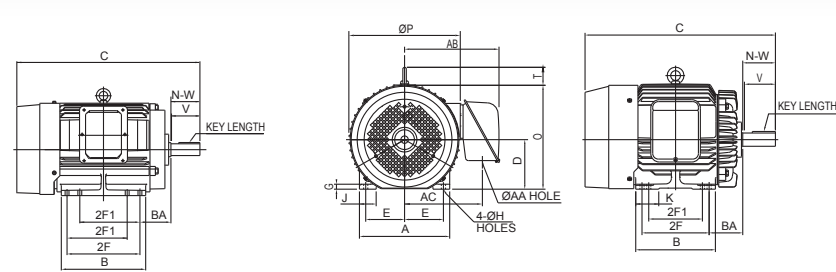


FIG.4

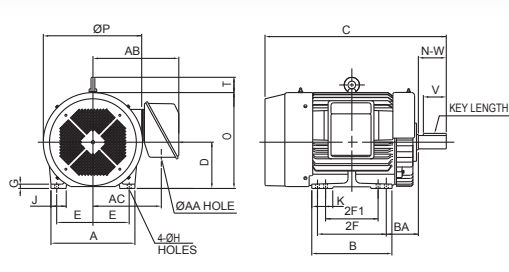


FIG.5

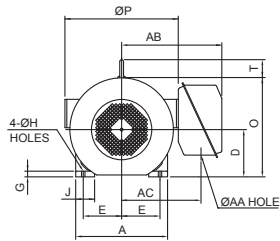


FIG.6

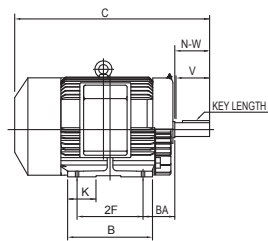
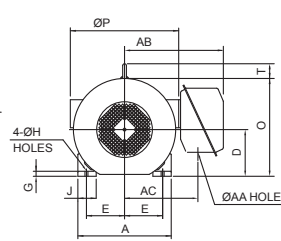


FIG.7



PERFORMANCE DATA

SUPER-MAX NEMA PREMIUM® EFFICIENCY
Totally Enclosed Fan Cooled, Squirrel Cage, NEMA Design B,
3-phase 60Hz 230 / 460V (Usable 200V) , 575V
1.15 S.F.,Class F Insulation, 40 Deg. C Ambient

CSA Certified For Class I, Division 2,
Groups A,B,C&D, Temperature Code T3C

Output			Current at 230V		575V	Torque			Efficiency (%)			Power Factor (%)		
HP	Frame NO.	Full Load RPM	Full Load (A)	Locked Rotor (A)	Full Load (A)	Full Load (LB-FT)	Locked Rotor (%)	Break Down (%)	100% Load (%)	75% Load (%)	50% Load (%)	100% Load (%)	75% Load (%)	50% Load (%)
0.75	143T	1150	2.6	16	1.1	3.4	265	305	84.0	84.1	83.5	65.0	55.5	43.0
	143T	3450	2.7	23	1.1	1.5	250	310	82.5	82.0	80.5	87.0	83.0	74.0
	143T	1730	2.8	21	1.1	3.0	290	310	86.5	86.5	82.5	78.0	71.5	58.5
	145T	1140	3.4	21	1.4	4.6	255	300	84.0	84.2	80.0	66.0	58.0	45.5
	182T	865	3.8	20	1.5	6.1	200	265	84.0	84.1	81.0	60.0	52.0	40.5
1.5	143T	3470	3.8	32	1.5	2.3	250	310	85.5	85.5	83.5	88.5	84.0	75.5
	145T	1730	4.2	32	1.7	4.5	300	320	87.5	87.7	86.0	78.5	72.0	60.0
	182T	1165	4.8	35	1.9	6.8	270	280	87.5	87.8	85.5	68.0	60.0	46.0
	184T	865	5.6	31	2.3	9.1	200	300	84.0	84.2	82.0	60.5	51.5	41.0
	145T	3475	5.0	48	2.0	3.0	250	315	86.5	86.8	85.5	89.0	86.0	77.0
2	145T	1730	5.6	43	2.3	6.1	300	340	87.5	87.7	85.5	78.0	71.0	60.0
	184T	1165	5.8	46	2.3	9.0	250	310	88.5	88.7	86.5	73.0	65.5	53.0
	213T	865	6.2	42	2.5	12.1	240	300	85.5	85.5	82.0	71.0	63.0	50.0
	182T	3505	7.2	64	2.9	4.5	210	290	88.5	88.7	87.0	90.0	87.0	80.0
	182T	1745	7.8	64	3.1	9.0	260	310	90.2	90.3	89.0	81.0	75.0	63.5
3	213T	1170	8.6	60	3.5	13.5	240	300	89.5	89.7	87.0	75.0	66.5	53.0
	215T	865	9.2	58	3.7	18.2	220	300	85.5	85.5	83.0	72.5	64.0	51.5
	184T	3505	11.6	92	4.7	7.5	210	300	90.2	90.5	89.0	90.5	88.0	81.0
	184T	1745	12.8	92	5.1	15.1	260	300	90.2	90.4	89.1	82.5	77.0	66.0
	215T	1170	13.8	92	5.5	22.5	240	300	89.5	89.8	87.5	78.0	71.0	60.0
5	254T	875	15.0	80	6.0	30.0	180	220	89.5	89.8	88.2	70.0	65.5	51.0
	213T	3500	18.0	127	7.2	11.3	200	270	90.2	90.5	89.5	88.0	85.5	79.0
	213T	1750	18.2	127	7.3	22.5	230	260	91.7	91.3	90.2	86.0	83.0	74.0
	254T	1170	20.2	127	8.1	33.7	200	240	91.7	92.0	91.5	77.0	72.0	61.5
	256T	875	22.6	110	9.1	45.0	180	220	89.5	89.8	88.5	70.5	66.0	52.0
7.5	215T	3500	23.0	162	9.2	15.0	220	270	91.7	91.9	90.5	89.0	87.0	83.5
	215T	1750	23.8	162	9.5	30.0	225	255	91.7	91.9	90.5	87.0	84.0	75.0
	256T	1170	26.4	162	10.6	44.9	200	240	91.7	92.1	91.7	79.0	74.5	65.0
	284T	880	30.0	162	12.0	59.7	210	250	91.0	91.3	89.5	70.0	63.0	51.0
	254T	3510	34.6	232	13.8	22.5	210	270	91.0	91.0	90.2	91.0	90.0	86.0
15	254T	1760	37.0	232	14.8	44.8	210	230	92.4	92.7	92.5	83.0	80.0	72.5
	284T	1170	38.8	232	15.5	67.3	210	230	92.4	92.6	91.3	80.0	75.5	66.3
	286T	880	42.4	232	17.0	89.6	200	230	91.7	92.0	91.0	73.0	66.0	54.0
	256T	3510	46.0	290	18.4	29.9	210	280	91.0	91.4	90.5	91.0	90.0	87.5
	256T	1760	49.0	290	19.6	59.7	220	235	93.0	93.4	91.5	83.5	79.5	71.5
20	286T	1170	51.0	290	20.4	89.8	210	225	92.4	92.8	91.5	81.0	78.0	70.0
	324T	880	56.6	290	22.7	119.4	210	230	91.7	91.9	91.0	73.0	66.5	55.0
	284TS	3520	57.4	365	23.0	37.3	230	250	91.7	91.7	91.4	90.5	90.0	87.0
	284T	1765	60.0	365	24.0	74.4	200	220	93.6	93.8	93.2	84.0	81.0	73.0
	324T	1175	60.4	365	24.2	111.8	210	250	93.0	93.1	92.2	85.0	81.0	71.0
25	326T	880	71.0	365	28.4	149.4	220	250	91.7	92.1	91.0	73.0	67.0	55.0
	286TS	3525	68.2	435	27.3	44.7	235	260	92.4	92.7	91.7	91.0	90.0	87.0
	286T	1765	72.0	435	28.8	89.3	200	230	93.6	93.9	92.5	84.0	81.5	75.0
	326T	1175	72.0	435	28.8	134.1	215	255	93.0	93.3	92.5	85.5	81.5	72.0
	364T	880	83.2	435	33.3	179.2	210	240	92.4	92.6	91.5	74.0	69.0	58.0
30	324TS	3530	93.4	580	37.4	59.5	180	240	93.0	93.3	92.4	88.0	87.0	83.0
	324T	1770	94.8	580	38.0	118.7	200	215	95.0	95.3	94.4	84.5	82.0	76.0
	364T	1180	96.0	580	38.4	178.1	200	220	94.5	94.7	93.7	84.0	82.0	75.0
	365T	880	108	580	43.2	239.0	210	225	92.4	92.7	91.7	76.0	72.5	62.5

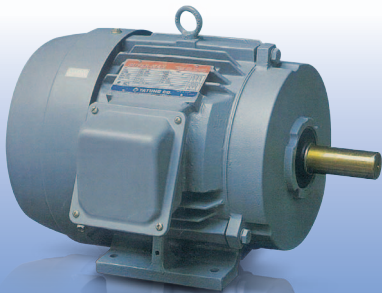
Note: 1.The above are typical values based on test, per IEEE 112-method B.
2 For current at 460V, divide above values by 2.
ALL DATA SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

PERFORMANCE DATA

SUPER-MAX NEMA PREMIUM® EFFICIENCY
Totally Enclosed Fan Cooled, Squirrel Cage, NEMA Design B,
3-phase 60Hz 230 / 460V (Usable 200V) , 575V
1.15 S.F.,Class F Insulation, 40 Deg. C Ambient

CSA Certified For Class I, Division 2,
Groups A,B,C&D, Temperature Code T3C

Output HP	Frame NO.	Full Load RPM	Current at 230V		575V	Torque			Efficiency (%)			Power Factor (%)		
			Full Load (A)	Locked Rotor (A)	Full Load (A)	Full Load (LB-FT)	Locked Rotor (%)	Break Down (%)	100% Load (%)	75% Load (%)	50% Load (%)	100% Load (%)	75% Load (%)	50% Load (%)
50	326TS	3550	114	725	45.6	74.4	180	240	93.6	93.8	92.5	88.5	87.0	83.0
	326T	1770	118	725	47.2	148.4	200	220	95.0	95.3	94.5	84.5	82.5	75.0
	365T	1180	120	725	48.0	222.6	200	230	94.5	94.8	94.3	84.0	83.0	75.5
	404T	880	134	725	53.6	298.7	200	230	93.0	93.4	92.5	76.0	70.0	60.0
60	364TS	3565	136	870	54.4	88.5	160	220	94.1	94.3	93.5	89.0	86.0	80.5
	364T	1770	143	870	57.2	178.0	200	240	95.0	95.2	94.3	84.0	81.0	78.0
	404T	1180	148	870	59.2	267.1	200	240	95.0	95.1	94.3	82.0	79.5	72.0
	405T	880	158	870	63.2	358.5	200	240	93.6	93.8	92.9	77.0	72.0	62.0
75	365TS	3565	168	1085	67.2	110.6	160	220	94.5	94.6	93.5	89.0	87.5	83.5
	365T	1770	180	1085	72.0	222.6	200	240	95.4	95.3	94.5	84.0	81.4	75.5
	405T	1180	181	1085	72.4	333.8	200	240	95.0	95.3	94.5	83.0	80.5	73.0
	444T	885	196	1085	78.4	445.6	210	230	94.1	94.2	92.5	77.0	72.0	60.0
100	405TS	3540	228	1450	91.2	148.4	160	240	94.5	94.5	93.4	88.0	87.0	82.5
	405T	1775	240	1450	96.0	295.9	200	250	95.4	95.3	93.5	83.0	78.0	67.0
	444T	1180	242	1450	96.8	445.1	200	250	95.0	95.1	94.2	82.5	80.5	73.0
	445T	885	256	1450	102	594.1	200	240	94.5	94.8	93.0	78.0	74.0	64.0
125	444TS	3550	290	1815	116	184.9	160	220	95.0	94.7	93.5	86.5	84.5	77.0
	444T	1775	286	1815	114	369.9	180	230	95.8	96.0	95.0	87.0	85.0	81.0
	445T	1180	300	1815	120	556.4	200	240	95.4	95.7	94.5	83.0	81.0	74.0
	447T	890	318	1815	127	756.1	190	230	94.5	94.7	93.5	78.5	75.0	66.0
150	445TS	3550	346	2170	138	221.9	160	220	95.0	94.6	93.6	87.0	84.5	78.0
	445T	1780	338	2170	135	442.6	180	230	95.8	96.0	95.1	88.0	87.0	83.0
	447T	1180	356	2170	142	667.7	200	240	95.8	96.0	95.1	83.5	81.0	73.5
	449T	885	379	2170	152.0	888.9	180	230	94.5	94.6	93.6	78.5	74.5	65.0
200	447TS	3560	228	1450	182	295.1	160	220	95.4	95.0	93.7	87.5	85.5	79.0
	447T	1780	220	1450	176	590.1	180	230	96.2	96.4	95.5	89.0	87.5	83.0
	449T	1185	234	1450	187	887.3	190	210	95.8	95.9	95.0	84.0	82.0	75.0
	N5007/9	890	248	1450	198	1179.0	170	220	94.5	94.7	94.0	80.0	75.0	66.0
250	449TS	3570	276	1825	221	368.2	160	230	95.8	95.5	94.0	89.0	87.0	84.0
	449T	1785	274	1825	219	736.4	180	230	96.2	96.2	95.0	89.5	88.0	84.0
	449T	1185	290	1825	232	1109	210	200	96.2	96.3	95.0	84.5	82.0	76.0
	N5007/9	885	304	1825	243	1482	160	210	95.0	95.0	94.1	81.0	77.0	68.0
300	N5007/9S	3570	329	2200	264	440.7	120	200	95.8	95.4	94.0	89.0	86.0	80.0
	449T	1785	332	2200	265	881.5	160	230	96.2	95.8	94.5	88.0	85.0	77.0
	N5007/9	1185	352	2200	281	1328	100	200	96.2	95.8	94.5	83.0	80.0	71.0
	N5807/8	885	365	2200	292	1778	135	200	95.0	95.0	94.1	81.0	75.0	65.0
350	N5007/9S	3570	379	2550	303	514.2	120	200	96.2	95.7	94.5	90.0	87.0	80.0
	N5007/9	1785	392	2550	313	1028	100	200	96.2	95.8	94.3	87.0	84.0	75.0
	N5007/9	1185	415	2550	332	1549	100	200	96.2	95.8	94.5	82.0	78.0	70.0
400	N5007/9S	3570	433	2900	346	587.6	120	200	96.2	95.8	94.5	90.0	87.0	80.0
	N5007/9	1785	442	2900	354	1175	100	200	96.2	96.0	95.0	88.0	85.0	76.0
	N5007/9	1185	469	2900	375	1770	100	200	96.2	95.8	95.0	83.0	78.0	70.0
450	N5807/8S	3570	487	3250	389	661.1	120	200	96.2	95.8	94.5	90.0	87.0	80.0
	N5007/9	1785	492	3250	394	1322	100	200	96.2	96.0	95.0	89.0	85.5	76.0
	N5807/8	1185	521	3250	417	1992	100	200	96.2	95.8	95.0	84.0	79.0	70.0
500	N5807/8S	3570	541	3625	433	734.5	100	200	96.2	95.8	94.5	90.0	87.0	80.0
	N5807/8	1785	566	3625	453	1469	100	200	96.2	96.0	95.0	86.0	83.0	73.0
	N5807/8	1185	579	3625	463	2213	100	200	96.2	96.0	95.0	84.0	79.0	70.0



Contact Information

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E-mail: export@tatungsh.net
Web: www.tatungsh.com/products

SPECIFICATION

RATING

- Frame 143T through to N5808, 3600, 1800, 1200, 900RPM Continuous duty at 40°C ambient.
- NEMA design B
- IP 54 up to 449T, IP55 from N5007/9 to N5807/8.

INTERCHANGEABILITY

- All motors are built to standardized design, machined to limits that equal and exceed NEMA and spare parts are interchangeable.
- F1 & F2 are interchangeable from 143T to 365T

DUAL MOUNTING

- 145T, 184T, 215T, 256T, 286T, 326T and 365T frames have 8 mounting holes.

VOLTAGE / FREQUENCY

- 3 phase, 60Hz
- 208-230 / 460V through to 100HP
- 230 / 460V for 125 & 150HP
- For 200HP and larger, 460V only
- 575V is available upon request and stock
- 50Hz is available upon request in all frame size

GREASE

- Use high quality grease to improve bearing performance, protection and long motor life.
- Lithium grease for frame 286T and below
- Exxon polyrex EM grease for frame 324T and above

CONVERSION KIT

- C-face (143TC-449TC)
- D-flange (143TD-449TD)

LEADS

	140T 180T	Up to 150HP		200HP and larger		320T And Below	360T And Above
		3600 (RPM)	1800/1200 (RPM)	3600 (RPM)	1800/1200 (RPM)		
Volt	230/460	230/460		460		575	
Lead	9	12	12	6	12	3	6
D.O.L.	YES	YES	YES	YES	YES	YES	YES
Y-Δ	N/A	YES	YES	YES	YES	N/A	YES
Part Winding	N/A	N/A	YES (230V)	N/A	YES	N/A	N/A