TATUNG
We Serve the World

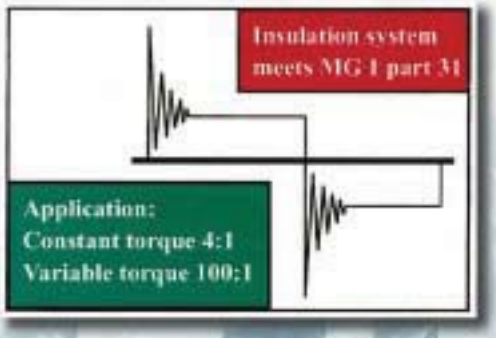
CSA Listed No. 1077944

NEMA Premium

E92588

INDUCTION MOTORS

SUPER-MAX



PREMIUM HIGH EFFICIENCY SERIES

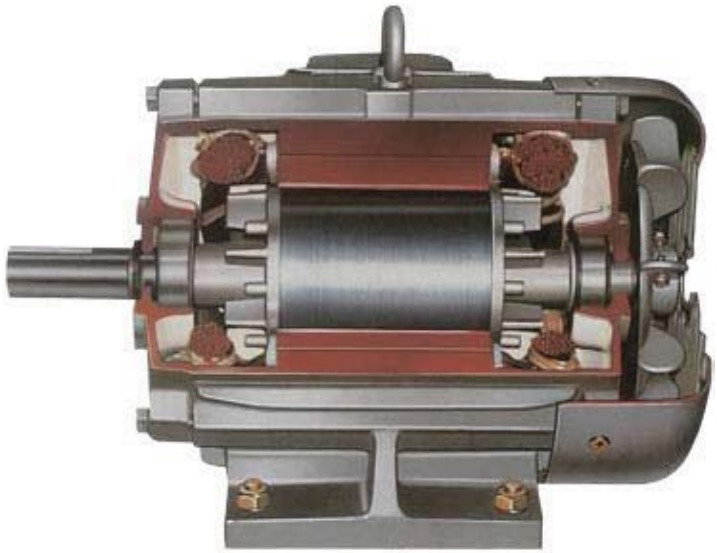
CSA Certified for Class I, Division 2

Group A, B, C, D, Temperature Code T3C

FRAMES: 143T~449T
Horizontal

TOTALLY ENCLOSED FAN COOLED
Squirrel Cage
3-Phase Continuous Rating
F Insulation
Service Factor: 1.15

3-YEAR WARRANTY



STANDARD NEMA PREMIUM® FEATURES

1. Meets or exceed 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 increase size of cross section for lowering conductor resistance and rotor copper loss.

2. Inverter Rated
Meets NEMA MG1 Part 31 at 1.0SF.,on variable frequency power
CT 4：1
VT 100：1
CH 2：1

3. Frame and End Brackets
Main frame and end brackets are all cast iron for superior corrosion resistance and they will better withstand the normal severe duty environment.

4. Conduit Box
Oversized conduit box made of steel fabricated provides ample space for connections.
Diagonally split, rotatable in 90 degree positions which allow for conduit to be received from any direction.

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

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

7. Bearings
Oversized, prelubricated, double shielded ball bearings are used up to 280T and oversized, regreaseable, open bearings are used for frame 320T and larger. All bearings are manufactured from vacuum degassed steels, which doubles the bearing life with minimum maintenance.
A high-quality, wide temperature range and rust in-hibiting grease, provides minimum friction losses and longer operating life.
Grease pipes and relief vents with plugs are provided for all open bearing constructions.

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

9. More Copper In Winding
Use of more copper and larger conductors increases cross sectional area of stator windings. This lowers resistance of the windings and reduces losses due to improved current flow.
All windings are treated with a minimum of 2 dips and bakes of non-hygroscopic varnish. Ensures reliable motor operation in humid, corrosive and abrasive industrial environment.

10. Non-sparking Cooling Fan
Increased safety application external cooling fan meets non-sparking feature.

11. Options:
Cast iron conduit box and fan cover are available upon request.

SPECIFICATIONS

*** Ratings**
143T through 449T frame, 3600, 1800, 1200, 900RPM.
Continuous duty at 40°C ambient. S. F 1.15
NEMA design B

*** Voltage/Frequency**
3 phase, 60 Hertz.
208-230/460 volts through 100HP.
230/460 volts for 125, 150HP rating.
For 200HP and larger motors, 460 volts only.
575 volts available upon request and stocked.
50 Hertz available upon request in both inch and metric frames.

*** Leads**

Rating / RPM	140T 180T	UP TO 150HP		200HP and Larger		320T and Below	360T and Above
		3600	1800/1200	3600	1800/1200		
Volts	230/460	230/460		460V		575V	
Leads	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

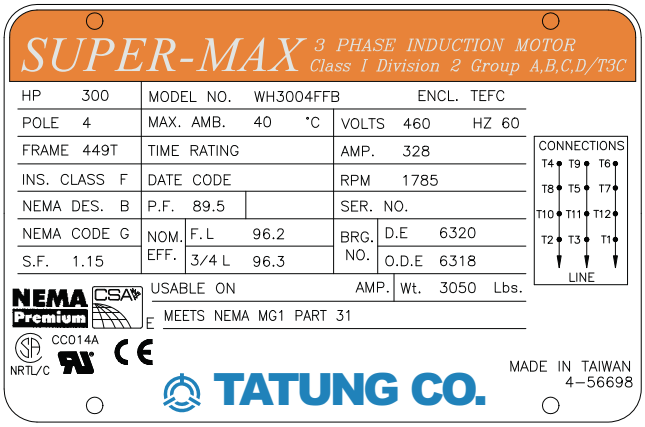
*** Interchangeability**
All motors are built to standardized designs, machined to limits that equal and exceed NEMA and spare parts are interchangeable.

*** Dual Mounting**
For frames 256T and smaller,the larger frames have 8 mounting holes to facilitate mounting into shorter frame mounting holes.

*** Hardware**
High strength and plated for resistance to corrosion.

*** Conversion Kits**
Accepts C-FACE (143TC~449TC),
D-FLANGE (143TD~449TD).

*** Typical Nameplate Information**



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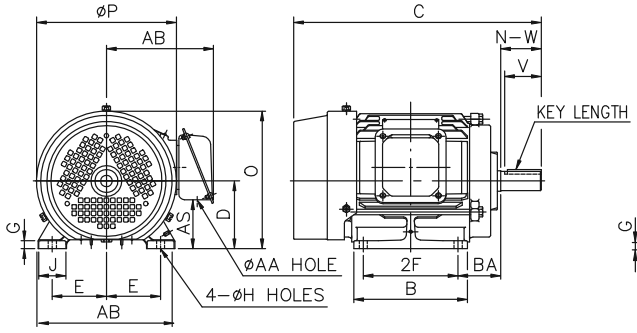

FIG. 1

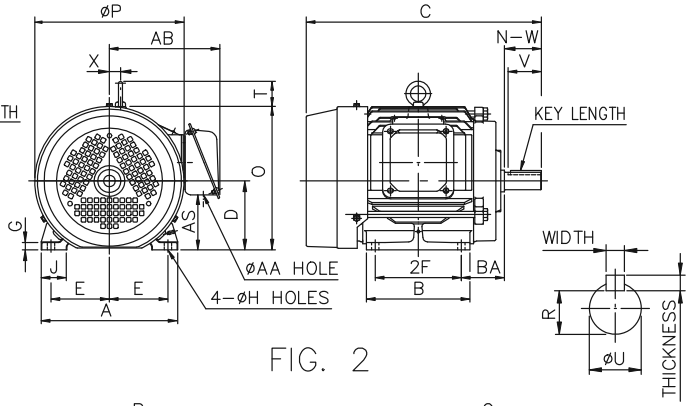

FIG. 2

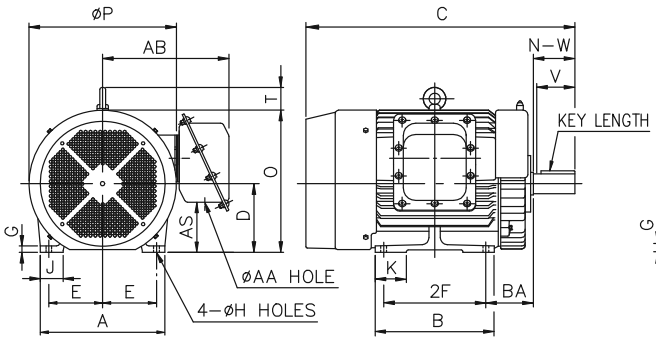

FIG. 5

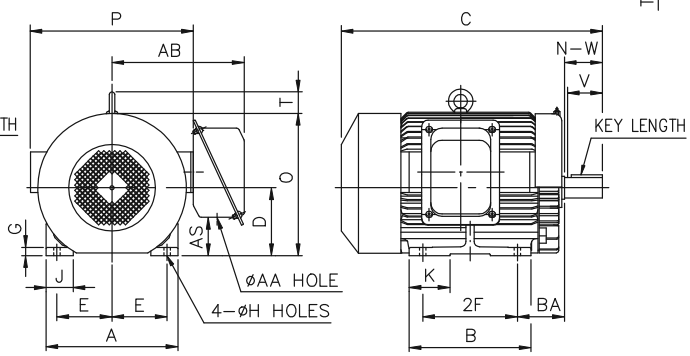

FIG. 6

FRAME NO.	FIG. NO.	MOUNTING E	MOUNTING 2F	MOUNTING øH	BA	A	B	C	D	G	J	K	X	P	O+T
143T	1	2.75	4.00	0.34	2.25	6.93	4.88	12.25	3.50	0.35	1.57	—	—	8.15	7.57
145T		2.75	5.00	0.34	2.25	6.93	5.87	13.24	3.50	0.35	1.57	—	—	8.15	7.57
182T	2	3.75	4.50	0.41	2.75	8.66	5.59	14.43	4.50	0.56	1.57	—	0.71	9.55	10.90
184T		3.75	5.50	0.41	2.75	8.66	6.61	15.42	4.50	0.56	1.57	—	0.71	9.55	10.90
213T	3	4.25	5.50	0.41	3.50	10.23	6.89	17.94	5.25	0.65	1.97	—	—	11.20	12.49
215T		4.25	7.00	0.41	3.50	10.23	8.39	19.43	5.25	0.65	1.97	—	—	11.20	12.49
254T		5.00	8.25	0.53	4.25	12.12	9.84	23.40	6.25	0.71	2.36	—	—	12.80	14.60
256T		5.00	10.00	0.53	4.25	12.12	11.60	25.10	6.25	0.71	2.36	—	—	12.80	14.60
284T	4	5.50	9.50	0.53	4.75	12.76	11.26	26.90	7.00	0.79	2.36	3.25	—	15.75	17.30
284TS		5.50	9.50	0.53	4.75	12.76	11.26	25.53	7.00	0.79	2.36	3.25	—	15.75	17.30
286T		5.50	11.00	0.53	4.75	12.76	12.76	28.40	7.00	0.79	2.36	3.25	—	15.75	17.30
286TS		5.50	11.00	0.53	4.75	12.76	12.76	27.03	7.00	0.79	2.36	3.25	—	15.75	17.30
324T		6.25	10.50	0.66	5.25	14.88	12.68	29.82	8.00	0.91	3.15	3.15	—	17.75	19.13
324TS		6.25	10.50	0.66	5.25	14.88	12.68	28.32	8.00	0.91	3.15	3.15	—	17.75	19.13
326T		6.25	12.00	0.66	5.25	14.88	14.17	31.32	8.00	0.91	3.15	3.15	—	17.75	19.13
326TS		6.25	12.00	0.66	5.25	14.88	14.17	29.82	8.00	0.91	3.15	3.15	—	17.75	19.13
364T	5	7.00	11.25	0.66	5.88	16.40	14.40	32.54	9.00	0.98	3.15	4.73	—	19.10	21.30
364TS		7.00	11.25	0.66	5.88	16.40	14.40	30.41	9.00	0.98	3.15	4.73	—	19.10	21.30
365T		7.00	12.25	0.66	5.88	16.40	15.40	33.52	9.00	0.98	3.15	4.73	—	19.10	21.30
365TS		7.00	12.25	0.66	5.88	16.40	15.40	31.39	9.00	0.98	3.15	4.73	—	19.10	21.30
404T	6	8.00	12.25	0.81	6.62	19.13	16.34	39.10	10.00	1.34	3.94	5.91	—	23.60	24.50
405T		8.00	13.75	0.81	6.62	19.13	17.68	40.60	10.00	1.34	3.94	5.91	—	23.60	24.50
405TS		8.00	13.75	0.81	6.62	19.13	17.68	37.60	10.00	1.34	3.94	5.91	—	23.60	24.50
444T	7	9.00	14.50	0.81	7.50	22.05	17.32	45.70	11.00	1.18	4.33	4.72	—	25.83	26.54
444TS		9.00	14.50	0.81	7.50	22.05	17.32	44.60	11.00	1.18	4.33	4.72	—	25.83	26.54
445T		9.00	16.50	0.81	7.50	22.05	19.29	47.70	11.00	1.18	4.33	4.72	—	25.83	26.54
445TS		9.00	16.50	0.81	7.50	22.05	19.29	46.60	11.00	1.18	4.33	4.72	—	25.83	26.54
447T	8	9.00	20.00	0.81	7.50	22.05	27.83	57.53	11.00	1.18	4.33	5.71	—	26.77	27.83
447TS		9.00	20.00	0.81	7.50	22.05	27.83	53.80	11.00	1.18	4.33	5.71	—	26.77	27.83
449T		9.00	25.00	0.81	7.50	22.05	27.83	57.53	11.00	1.18	4.33	5.71	—	26.77	27.83
449TS		9.00	25.00	0.81	7.50	22.05	27.83	53.80	11.00	1.18	4.33	5.71	—	26.77	27.83

NOTE: 1. Tolerance on dimension D: +0.00 inch, −0.06 inch

2. Tolerance on dimension U: +0.000 inch, −0.0005 inch for frame 143～215.
+0.000 inch, −0.001 inch for frame 254～449.

3. Tolerance on dimension R: +0.000 inch, −0.015 inch.

4. Dimension V is length of straight part shaft.

ALL DIMENSIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

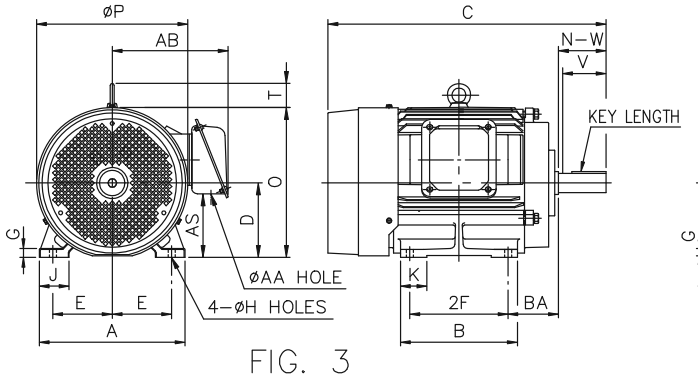

FIG. 3

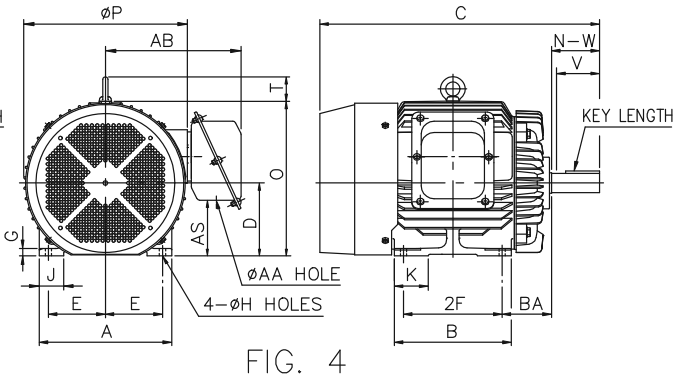

FIG. 4

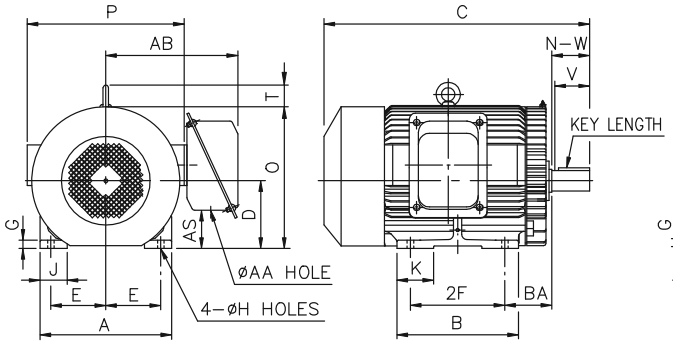

FIG. 7

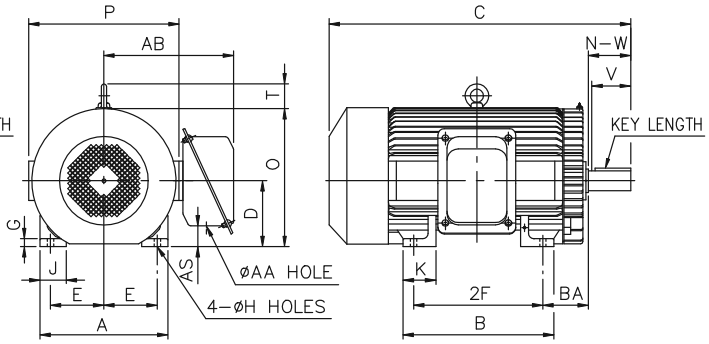

FIG. 8

3RD ANGLE PROJECTION / DIMENSIONS IN INCHES

KEY			KEYSEAT	CONDUIT BOX			SHAFT EXTENSION			BEARINGS		APPR.WT	FRAME
WIDTH	THICKNESS	LENGTH	R	øAA	AB	AS	N–W	øU	V	DRIVE END	OPPOSITE DRIVE END	(LBS.)	NO.
0.188	0.188	1.375	0.771	1.10	7.00	2.63	2.25	0.875	2.20	6205ZZ	6205ZZ	48	143T
0.188	0.188	1.375	0.771	1.10	7.00	2.63	2.25	0.875	2.20	6205ZZ	6205ZZ	56	145T
0.250	0.250	1.750	0.986	1.10	7.87	3.74	2.75	1.125	2.70	6207ZZ	6206ZZ	106	182T
0.250	0.250	1.750	0.986	1.10	7.87	3.74	2.75	1.125	2.70	6207ZZ	6206ZZ	118	184T
0.312	0.312	2.375	1.201	1.38	8.60	4.40	3.38	1.375	3.30	6308ZZ	6208ZZ	167	213T
0.312	0.312	2.375	1.201	1.38	8.60	4.40	3.38	1.375	3.30	6308ZZ	6208ZZ	190	215T
0.375	0.375	2.91	1.416	2.05	10.43	5.20	4.00	1.625	3.90	6310ZZ	6208ZZ	284	254T
0.375	0.375	2.91	1.416	2.05	10.43	5.20	4.00	1.625	3.90	6310ZZ	6208ZZ	310	256T
0.500	0.500	3.28	1.591	2.48	13.40	4.05	4.62	1.875	4.50	6310ZZ	6210ZZ	412	284T
0.375	0.375	1.91	1.416	2.48	13.40	4.05	3.25	1.625	3.20	6310ZZ	6210ZZ	430	284TS
0.500	0.500	3.28	1.591	2.48	13.40	4.05	4.62	1.875	4.50	6310ZZ	6210ZZ	465	286T
0.375	0.375	1.91	1.416	2.48	13.40	4.05	3.25	1.625	3.20	6310ZZ	6210ZZ	465	286TS
0.500	0.500	3.91	1.845	2.48	14.40	5.44	5.25	2.125	5.00	6312	6212	630	324T
0.500	0.500	2.03	1.591	2.48	14.40	5.44	3.75	1.875	3.50	6312C3	6212C3	629	324TS
0.500	0.500	3.91	1.845	2.48	14.40	5.44	5.25	2.125	5.00	6312	6212	690	326T
0.500	0.500	2.03	1.591	2.48	14.40	5.44	3.75	1.875	3.50	6312C3	6212C3	674	326TS
0.625	0.625	4.28	2.021	3.58	16.50	5.85	5.88	2.375	5.75	6215	6312	800	364T
0.500	0.500	2.03	1.591	3.58	16.50	5.85	3.75	1.875	3.50	6312C3	6312C3	835	364TS
0.625	0.625	4.28	2.021	3.58	16.50	5.85	5.88	2.375	5.75	6215	6312	925	365T
0.500	0.500	2.03	1.591	3.58	16.50	5.85	3.75	1.875	3.50	6312C3	6312C3	912	365TS
0.750	0.750	5.65	2.450	4.65	21.20	4.68	7.25	2.875	7.00	6218	6313	1340	404T
0.750	0.750	5.65	2.450	4.65	21.20	4.68	7.25	2.875	7.00	6218	6313	1467	405T
0.500	0.500	2.78	1.845	4.65	21.20	4.68	4.25	2.125	4.00	6313C3	6313C3	1428	405TS
0.875	0.875	6.91	2.880	4.65	22.24	6.31	8.50	3.375	8.25	6220	6315	1810	444T
0.625	0.625	3.03	2.021	4.65	22.24	6.31	4.75	2.375	4.50	6313C3	6313C3	1800	444TS
0.875	0.875	6.91	2.880	4.65	22.24	6.31	8.50	3.375	8.25	6220	6315	2050	445T
0.625	0.625	3.03	2.021	4.65	22.24	6.31	4.75	2.375	4.50	6313C3	6313C3	1940	445TS
0.875	0.875	6.91	2.880	4.65	22.95	2.34	8.50	3.375	8.25	6220	6315	2650	447T
0.625	0.625	3.03	2.021	4.65	22.95	2.34	4.75	2.375	4.50	6313C3	6313C3	2500	447TS
0.875	0.875	6.91	2.880	4.65	22.95	2.34	8.50	3.375	8.25	6320	6318	3050	449T
0.625	0.625	3.03	2.021	4.65	22.95	2.34	4.75	2.375	4.50	6313C3	6313C3	2800	449TS

3–55345

All 2–pole motors are used only for direct coupling.For belt drive applications, please contact TATUNG.Currently motors shown with NU bearings are for belted use.

In all frames ball bearings are available for direct coupling applications.

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Performance Data

SUPER-MAX NEMA PREMIUM® MOTORS

Totally Enclosed Fan Cooled, Squirrel Cage, NEMA Design B,
3-phase 60Hz 230/460V (Usable 208V), 575V
1.15 S.F.,Class F Insulation,40℃ Ambient/ DOE CC014A

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

HP	Full Load RPM	NEMA Frame	Current at 230V		575V	Torque			Nom. Efficiency			Power Factor		
			Full Load (A)	Locked Rotor (A)	Full Load (A)	Full Load (LB-FT)	Locked Rotor (%)	Break Down (%)	Full Load (%)	3/4 Load (%)	1/2 Load (%)	Full Load (%)	3/4 Load (%)	1/2 Load (%)
0.75	1150	143T	2.6	16	1.1	3.4	265	305	84.0	84.1	83.5	65.0	55.5	43.0
1	1730	143T	2.8	21	1.1	3.0	290	310	86.5	86.5	82.5	78.0	71.5	58.5
	1140	145T	3.4	21	1.4	4.6	255	300	84.0	84.2	80.0	66.0	58.0	45.5
	865	182T	3.8	20	1.5	6.1	200	265	84.0	84.1	81.0	60.0	52.0	40.5
1.5	3470	143T	3.8	32	1.5	2.3	250	310	85.5	85.5	83.5	88.5	84.0	75.5
	1730	145T	4.2	32	1.7	4.5	300	320	87.5	87.7	86.0	78.5	72.0	60.0
	1165	182T	4.8	35	1.9	6.8	270	280	87.5	87.8	85.5	68.0	60.0	46.0
	865	184T	5.6	31	2.3	9.1	200	300	84.0	84.2	82.0	60.5	51.5	41.0
2	3475	145T	5.0	48	2.0	3.0	250	315	86.5	86.8	85.5	89.0	86.0	77.0
	1730	145T	5.6	43	2.3	6.1	300	340	87.5	87.7	85.5	78.0	71.0	60.0
	1165	184T	5.8	46	2.3	9.0	250	310	88.5	88.7	86.5	73.0	65.5	53.0
	865	213T	6.2	42	2.5	12.1	240	300	85.5	85.5	82.0	71.0	63.0	50.0
3	3505	182T	7.2	64	2.9	4.5	210	290	88.5	88.7	87.0	90.0	87.0	80.0
	1745	182T	7.8	64	3.1	9.0	260	310	90.2	90.3	89.0	81.0	75.0	63.5
	1170	213T	8.6	60	3.5	13.5	240	300	89.5	89.7	87.0	75.0	66.5	53.0
	865	215T	9.2	58	3.7	18.2	220	300	85.5	85.5	83.0	72.5	64.0	51.5
5	3505	184T	11.6	92	4.7	7.5	210	300	90.2	90.5	89.0	90.5	88.0	81.0
	1745	184T	12.8	92	5.1	15.1	260	300	90.2	90.4	89.1	82.5	77.0	66.0
	1170	215T	13.8	92	5.5	22.5	240	300	89.5	89.8	87.5	78.0	71.0	60.0
	875	254T	15.0	80	6.0	30.0	180	220	89.5	89.8	88.2	70.0	65.5	51.0
7.5	3500	213T	18.0	127	7.2	11.3	200	270	90.2	90.5	89.5	88.0	85.5	79.0
	1750	213T	18.2	127	7.3	22.5	230	260	91.7	91.3	90.2	86.0	83.0	74.0
	1170	254T	20.2	127	8.1	33.7	200	240	91.7	92.0	91.5	77.0	72.0	61.5
	875	256T	22.6	110	9.1	45.0	180	220	89.5	89.8	88.5	70.5	66.0	52.0
10	3500	215T	23.0	162	9.2	15.0	220	270	91.7	91.9	90.5	89.0	87.0	83.5
	1750	215T	23.8	162	9.5	30.0	225	255	91.7	91.9	90.5	87.0	84.0	75.0
	1170	256T	26.4	162	10.6	44.9	200	240	91.7	92.1	91.7	79.0	74.5	65.0
	880	284T	30.0	162	12.0	59.7	210	250	91.0	91.3	89.5	70.0	63.0	51.0
15	3510	254T	34.6	232	13.8	22.5	210	270	91.0	91.0	90.2	91.0	90.0	86.0
	1760	254T	37.0	232	14.8	44.8	210	230	92.4	92.7	92.5	83.0	80.0	72.5
	1170	284T	38.8	232	15.5	67.3	210	230	92.4	92.6	91.3	80.0	75.5	66.3
	880	286T	42.4	232	17.0	89.6	200	230	91.7	92.0	91.0	73.0	66.0	54.0
20	3510	256T	46.0	290	18.4	29.9	210	280	91.0	91.4	90.5	91.0	90.0	87.5
	1760	256T	49.0	290	19.6	59.7	220	235	93.0	93.4	91.5	83.5	79.5	71.5
	1170	286T	51.0	290	20.4	89.8	210	225	92.4	92.8	91.5	81.0	78.0	70.0
	880	324T	56.6	290	22.7	119.4	210	230	91.7	91.9	91.0	73.0	66.5	55.0
25	3520	284TS	57.4	365	23.0	37.3	230	250	91.7	91.7	91.4	90.5	90.0	87.0
	1765	284T	60.0	365	24.0	74.4	200	220	93.6	93.8	93.2	84.0	81.0	73.0
	1175	324T	60.4	365	24.2	111.8	210	250	93.0	93.1	92.2	85.0	81.0	71.0
	880	326T	71.0	365	28.4	149.4	220	250	91.7	92.1	91.0	73.0	67.0	55.0
30	3525	286TS	68.2	435	27.3	44.7	235	260	92.4	92.7	91.7	91.0	90.0	87.0
	1765	286T	72.0	435	28.8	89.3	200	230	93.6	93.9	92.5	84.0	81.5	75.0
	1175	326T	72.0	435	28.8	134.1	215	255	93.0	93.3	92.5	85.5	81.5	72.0
	880	364T	83.2	435	33.3	179.2	210	240	92.4	92.6	91.5	74.0	69.0	58.0

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Performance Data

SUPER-MAX NEMA PREMIUM® MOTORS

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

Totally Enclosed Fan Cooled, Squirrel Cage, NEMA Design B,
3-phase 60Hz 230/460V (Usable 208V), 575V
1.15 S.F.,Class F Insulation,40℃ Ambient/ DOE CC014A

HP	Full Load RPM	NEMA Frame	Current at 230V		575V	Torque			Nom. Efficiency			Power Factor		
			Full Load (A)	Locked Rotor (A)	Full Load (A)	Full Load (LB-FT)	Locked Rotor (%)	Break Down (%)	Full Load (%)	3/4 Load (%)	1/2 Load (%)	Full Load (%)	3/4 Load (%)	1/2 Load (%)
40	3530	324TS	93.4	580	37.4	59.5	180	240	93.0	93.3	92.4	88.0	87.0	83.0
	1770	324T	94.8	580	38.0	118.7	200	215	95.0	95.3	94.4	84.5	82.0	76.0
	1180	364T	96.0	580	38.4	178.1	200	220	94.5	94.7	93.7	84.0	82.0	75.0
	880	365T	108	580	43.2	239.0	210	225	92.4	92.7	91.7	76.0	72.5	62.5
50	3550	326TS	114	725	45.6	74.4	180	240	93.6	93.8	92.5	88.5	87.0	83.0
	1770	326T	118	725	47.2	148.4	200	220	95.0	95.3	94.5	84.5	82.5	75.0
	1180	365T	120	725	48.0	222.6	200	230	94.5	94.8	94.3	84.0	83.0	75.5
	880	404T	134	725	53.6	298.7	200	230	93.0	93.4	92.5	76.0	70.0	60.0
60	3565	364TS	136	870	54.4	88.5	160	220	94.1	94.3	93.5	89.0	86.0	80.5
	1770	364T	143	870	57.2	178.0	200	240	95.0	95.2	94.3	84.0	81.0	78.0
	1180	404T	148	870	59.2	267.1	200	240	95.0	95.1	94.3	82.0	79.5	72.0
	880	405T	158	870	63.2	358.5	200	240	93.6	93.8	92.9	77.0	72.0	62.0
75	3565	365TS	168	1085	67.2	110.6	160	220	94.5	94.6	93.5	89.0	87.5	83.5
	1770	365T	180	1085	72.0	222.6	200	240	95.4	95.3	94.5	84.0	81.4	75.5
	1180	405T	181	1085	72.4	333.8	200	240	95.0	95.3	94.5	83.0	80.5	73.0
	885	444T	196	1085	78.4	445.6	210	230	94.1	94.2	92.5	77.0	72.0	60.0
100	3540	405TS	228	1450	91.2	148.4	160	240	94.5	94.5	93.4	88.0	87.0	82.5
	1775	405T	240	1450	96.0	295.9	200	250	95.4	95.3	93.5	83.0	78.0	67.0
	1180	444T	242	1450	96.8	445.1	200	250	95.0	95.1	94.2	82.5	80.5	73.0
	885	445T	256	1450	102.4	594.1	200	240	94.5	94.8	93.0	78.0	74.0	64.0
125	3550	444TS	290	1815	116.0	184.9	160	220	95.0	94.7	93.5	86.5	84.5	77.0
	1775	444T	286	1815	114.4	369.9	180	230	95.8	96.0	95.0	87.0	85.0	81.0
	1180	445T	300	1815	120.0	556.4	200	240	95.4	95.7	94.5	83.0	81.0	74.0
	890	447T	318	1815	127.0	756.1	190	230	94.5	94.7	93.5	78.5	75.0	66.0
150	3550	445TS	346	2170	138.4	221.9	160	220	95.0	94.6	93.6	87.0	84.5	78.0
	1780	445T	338	2170	135.2	442.6	180	230	95.8	96.0	95.1	88.0	87.0	83.0
	1180	447T	356	2170	142.4	667.7	200	240	95.8	96.0	95.1	83.5	81.0	73.5
200	3560	447TS	228	1450	182.4	295.1	160	220	95.4	95.0	93.7	87.5	85.5	79.0
	1780	447T	220	1450	176	590.1	180	230	96.2	96.4	95.5	89.0	87.5	83.0
	1185	449T	234	1450	187	887.3	190	210	95.8	95.9	95.0	84.0	82.0	75.0
250	3570	449TS	276	1825	221	368.2	160	230	95.8	95.5	94.0	89.0	87.0	84.0
	1785	449T	274	1825	219	736.4	180	230	96.2	96.2	95.0	89.5	88.0	84.0
	1185	449T	290	1825	232	1109	210	200	96.2	96.3	95.0	84.5	82.0	76.0
300	1785	449T	328	2200	263	883.6	180	230	96.2	96.3	95.3	89.5	88.0	84.0

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