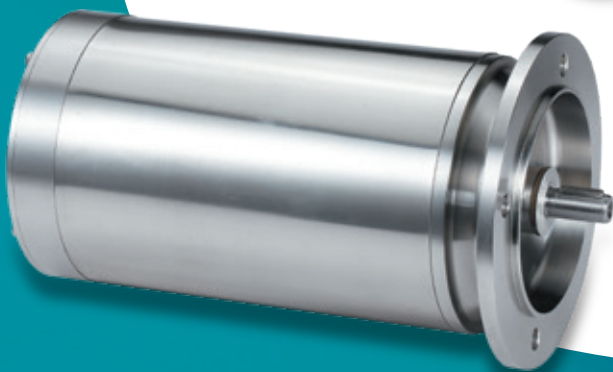




STAINLESS STEEL NEMA MOTORS



TSS Series

Stainless-steel Housing NEMA Motors

- **1/4HP thru 15HP**
- **56 thru 215T**



FEATURES:

Service factor: 1.25
Protection class: IP69K
Ball bearings with food grade grease
Stainless-steel Housing
Continuous Duty 40: Ambient
TEFC & TENV

Application:

The shaft, housing, end-shield and bolts & nuts of the motor are using stainless-steel. It has features of nice appearance, anti-corrosion, and stainless, and can be widely use in the industry of food processing and chemical.

T SS Series TEFC Motors Dimensional Drawings

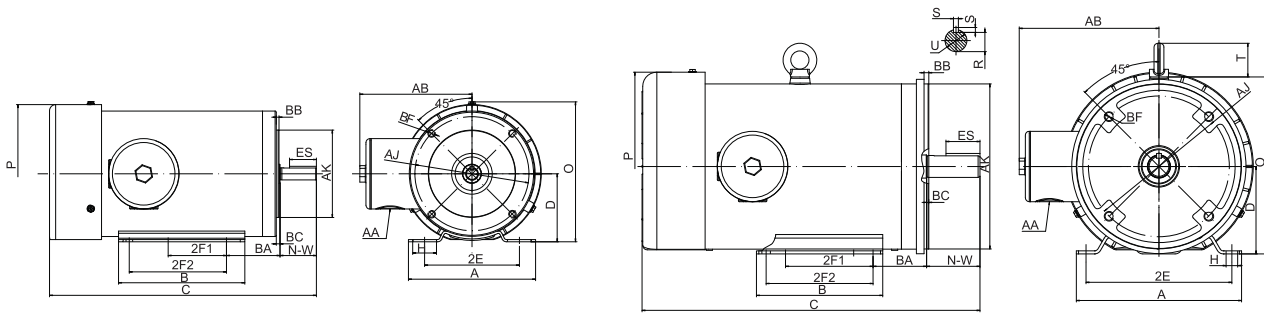


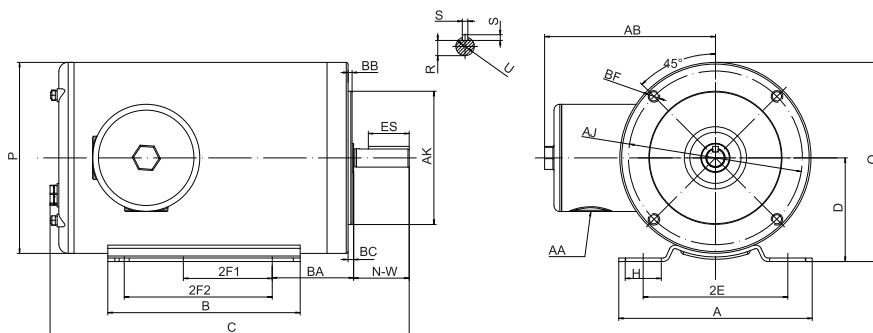
Figure 1 56 thru 140T

Figure 2 180T, 210T

O verall & Installation Dimensions

Frame	A	B	D	2E	2F1	2F2	BA	H	U	N-W	R	ES	S	AA	AB	O	T	P	Bearing DE	Bearing ODE	AJ	AK	BB	BC	BF
56	6.54	4.13	3.5	4.88	3		2.75	1.22×0.34	0.625	1.875	0.517	1.375	0.1875	1/2-14NPT	5.77	7.2		7.19	6205	6204	5.875	4.5	0.16	-0.19	4×3/8-16UNC
56H	6.54	6.5	3.5	4.88	3	5	2.75	1.22×0.34	0.625	1.875	0.517	1.375	0.1875	1/2-14NPT	5.77	7.2		7.19	6205	6204	5.875	4.5	0.16	-0.19	4×3/8-16UNC
140T	6.55	5.9	3.5	5.5	4	5	2.25	0.5×0.34	0.875	2.25	0.771	1.375	0.1875	3/4-14NPT	5.77	7.2		7.19	6205	6204	5.875	4.5	0.16	0.12	4×3/8-16UNC
180T	8.5	6.5	4.5	7.5	4.5	5.5	2.75	0.59×0.433	1.125	2.75	0.986	1.75	0.25	3/4-14NPT	7.19	9.1	1.75	9.7	6206	6205	7.25	8.5	0.25	0.12	4×1/2-13UNC
210T	10.5	8.5	5.25	8.5	5.5	7	3.5	0.56×0.433	1.375	3.375	1.201	2.41	0.312	1-11/2NPT	7.95	10.65	1.75	11.36	6208	6206	7.25	8.5	0.25	0.25	4×1/2-13UNC

T SS Series TENV Motors Dimensional Drawings



O verall & Installation Dimensions

Frame	A	B	D	2E	2F1	2F2	BA	H	U	N-W	R	ES	S	AA	AB	O	T	P	Bearing DE	Bearing ODE	AJ	AK	BB	BC	BF
56	6.54	4.13	3.5	4.88	3		2.75	1.22×0.34	0.625	1.875	0.517	1.375	0.1875	1/2-14NPT	5.77	6.73		6.46	6205	6204	5.875	4.5	0.16	-0.19	4×3/8-16UNC
56H	6.54	6.5	3.5	4.88	3	5	2.75	1.22×0.34	0.625	1.875	0.517	1.375	0.1875	1/2-14NPT	5.77	6.73		6.46	6205	6204	5.875	4.5	0.16	-0.19	4×3/8-16UNC
140T	6.55	5.9	3.5	5.5	4	5	2.25	0.5×0.34	0.875	2.25	0.771	1.375	0.1875	3/4-14NPT	5.77	6.73		6.46	6205	6204	5.875	4.5	0.16	0.12	4×3/8-16UNC

S.S. MOTOR



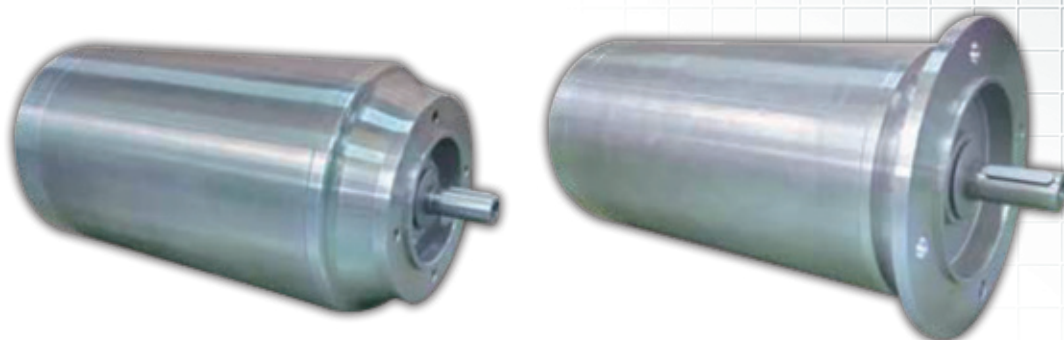
SS Series Stainless-steel Housing NEMA Motors Technical Data(60Hz)

HP	FULL LOAD SPEED rpm	FRAME	ENCLOSURE	EFF. 100%	POWER FACTOR (cosΦ)	IFL 460V A	FULL LOAD TORQUE lb-ft	MOMENT OF INERTIA lb-ft squared	LOCKED ROTOR		TST TFL	TPU TFL	TM TFL	SERVICE FACTOR	C
									KVA CODE	II/In					
1/4	3520	56	TENV	74.0	0.76	0.42	0.37	0.0375	N	9.10	3.2	2.6	4	1.25	10
	3510	56	TEFC	66.0	0.73	0.49	0.37	0.0332	M	7.20	3.2	2.7	4.3	1.25	11.6
	1760	56	TENV	79.0	0.63	0.47	0.75	0.0764	N	8.30	3.5	3.2	4.8	1.25	10.4
	1750	56	TEFC	70.0	0.60	0.56	0.75	0.0603	N	6.60	3.1	3	4.2	1.25	11.6
	1170	56	TENV	75.0	0.55	0.57	1.12	0.0783	L	5.30	2.4	2.1	3.5	1.25	10.4
	1160	56	TEFC	72.0	0.58	0.56	1.13	0.0702	K	5.00	2.1	2	3.3	1.25	11.6
	870	56	TENV	71.0	0.49	0.67	1.51	0.0944	L	4.30	2.3	2.2	3.2	1.25	10.4
870	56	TEFC	66.0	0.47	0.75	1.51	0.0783	L	3.90	2.2	2.1	3.1	1.25	12	
1/3	3520	56	TENV	77.0	0.79	0.51	0.49	0.0418	N	9.50	3.2	2.6	4	1.25	10.4
	3510	56	TEFC	72.0	0.75	0.57	0.49	0.0375	M	8.00	3.2	2.7	4.3	1.25	11.6
	1760	56	TENV	79.5	0.64	0.61	0.99	0.0845	N	8.40	3.5	3.2	4.8	1.25	10.4
	1750	56	TEFC	74.0	0.62	0.67	0.99	0.0764	N	7.50	3.1	3	4.2	1.25	12
	1170	56	TENV	77.0	0.56	0.72	1.48	0.0944	L	5.70	2.7	2.4	3.8	1.25	10.4
	1160	56	TEFC	74.0	0.59	0.71	1.49	0.0783	K	5.20	2.1	2	3.3	1.25	12
	870	56	TENV	73.0	0.50	0.85	1.99	0.1106	K	4.40	2.3	2.2	3.2	1.25	11.6
870	56	TEFC	69.0	0.48	0.93	1.99	0.0944	L	4.10	2.2	2.1	3.1	1.25	12	
1/2	3510	56	TENV	82.5	0.83	0.68	0.75	0.0460	M	9.30	2.8	2.3	3.7	1.25	11
	3510	56	TEFC	74.0	0.79	0.80	0.75	0.0418	M	8.00	3	2.6	3.7	1.25	12
	1760	56	TENV	84.0	0.68	0.82	1.49	0.1084	N	9.00	3.5	3.2	4.8	1.25	11
	1750	56	TEFC	78.5	0.65	0.92	1.50	0.0845	M	7.60	3.1	3	4.2	1.25	12
	1170	56	TENV	80.5	0.59	0.99	2.25	0.1106	L	5.90	2.7	2.4	3.8	1.25	11.6
	1160	56	TEFC	75.5	0.61	1.02	2.26	0.0944	K	5.20	2.1	2	3.1	1.25	12
	870	56H, 140T	TENV	73.5	0.50	1.27	3.02	0.1384	K	4.40	2.3	2.2	3.2	1.25	13.0, 13.1
870	56H, 140T	TEFC	71.0	0.50	1.32	3.02	0.1106	K	4.20	2.2	2.1	3.1	1.25	13.2, 13.3	
3/4	3510	56	TENV	84.5	0.85	0.98	1.12	0.0546	M	9.70	2.8	2.3	3.7	1.25	11
	3510	56	TEFC	77.0	0.82	1.11	1.12	0.0460	L	8.00	3	2.6	3.7	1.25	12
	1760	56	TENV	85.5	0.68	1.21	2.24	0.1324	N	8.80	3.3	3	4.5	1.25	11.6
	1750	56	TEFC	81.5	0.66	1.31	2.25	0.1084	M	7.70	3.1	3	4.2	1.25	12.6
	1160	56H, 140T	TENV	81.5	0.59	1.46	3.40	0.1348	L	5.90	2.7	2.4	3.8	1.25	12.2, 12.3
	1160	56H, 140T	TEFC	81.5	0.62	1.39	3.40	0.1106	J	5.40	2.1	2	3.1	1.25	13.2, 13.3
	860	56H, 140T	TENV	74.0	0.50	1.90	4.58	0.1668	K	4.10	2.3	2.2	3.2	1	13.8, 13.9
870	56H, 140T	TEFC	72.0	0.53	1.84	4.53	0.1348	K	4.20	2.1	2	3.1	1.25	13.2, 13.3	
1	3510	56H, 140T	TENV	86.5	0.85	1.27	1.50	0.0631	M	10.6	3.2	2.6	4	1.25	11.6, 11.7
	3510	56H, 140T	TEFC	80.0	0.79	1.48	1.50	0.0546	L	8.0	2.6	2.2	3.5	1.25	13.2, 13.3
	1760	56H, 140T	TENV	86.5	0.68	1.59	2.99	0.1566	N	9.4	4.1	3.8	5.1	1.25	12.2, 12.3
	1750	56H, 140T	TEFC	85.5	0.71	1.54	3.00	0.1324	L	7.7	3	2.7	3.8	1.25	13.2, 13.3
	1160	56H, 140T	TENV	83.0	0.60	1.88	4.53	0.1668	L	6.1	2.7	2.4	3.8	1.25	13.0, 13.1
	1160	56H, 140T	TEFC	82.5	0.63	1.80	4.53	0.1348	J	5.4	2.1	2	3.1	1	13.2, 13.3
	880	180T	TEFC	83.0	0.55	2.05	5.97	0.5206	K	5.1	1.8	1.6	2.7	1.25	15
1.5	3500	56H, 140T	TENV	87.5	0.89	1.80	2.25	0.0802	M	10.9	3.2	2.6	4	1	13.0, 13.1
	3510	56H, 140T	TEFC	84.0	0.81	2.06	2.25	0.0631	L	8.5	2.6	2.2	3.5	1.25	13.2, 13.3
	1750	56H, 140T	TENV	87.0	0.72	2.24	4.50	0.1887	M	8.9	3.2	2.9	4.3	1.25	13.8, 13.9
	1750	56H, 140T	TEFC	86.5	0.73	2.22	4.50	0.1566	K	7.5	3.1	2.9	3.9	1	13.8, 13.9
	1170	180T	TEFC	87.5	0.68	2.36	6.74	0.5206	K	6.8	2.1	1.5	3.1	1.25	15
	880	180T	TEFC	83.5	0.55	3.08	8.96	0.6101	K	5.1	1.8	1.6	2.7	1.25	15.4
2	3500	56H, 140T	TENV	88.5	0.89	2.38	3.00	0.0973	M	11.5	3.5	2.6	4.2	1	13.8, 13.9
	3510	56H, 140T	TEFC	85.5	0.83	2.64	2.99	0.0802	L	8.7	2.5	2.2	3.2	1.25	13.8, 13.9
	1750	56H, 140T	TENV	87.5	0.74	2.89	6.00	0.2207	M	8.7	3.2	2.9	4.3	1	14.5, 14.6
	1750	56H, 140T	TEFC	86.5	0.75	2.89	6.00	0.1887	K	7.8	3	2.7	3.8	1.25	14.6, 14.7
	1170	180T	TEFC	88.5	0.69	3.07	8.98	0.6103	K	7.0	2.1	1.5	3.1	1.25	15.8
	880	210T	TEFC	85.5	0.56	3.91	11.9	1.0175	J	5.0	1.8	1.6	2.7	1.25	18
3	3500	56H, 140T	TENV	90.2	0.89	3.50	4.50	0.1144	M	11.8	3.5	2.6	4.2	1	15.4, 15.9
	3510	56H, 140T	TEFC	86.5	0.86	3.78	4.49	0.0973	K	8.8	2.5	2.2	3.2	1.25	14.6, 14.7
	3530	180T	TEFC	86.5	0.87	3.73	4.47	0.2299	K	8.9	2.4	2	3.5	1.25	15.4
	1760	180T	TEFC	89.5	0.80	3.92	8.96	0.4129	K	8.2	2.5	2.1	3.3	1.25	15.4
	1170	210T	TEFC	89.5	0.71	4.42	13.5	1.0175	J	6.3	1.9	1.5	2.8	1.25	18
	880	210T	TEFC	86.5	0.58	5.60	17.9	1.4001	J	5.3	1.8	1.6	2.7	1.25	19.6
5	3480	56H, 140T	TEFC	88.5	0.89	5.94	7.55	0.1211	L	10.5	2.8	2.4	3.5	1	16.6, 16.7
	3530	180T	TEFC	88.5	0.89	5.94	7.44	0.2769	L	9.6	2.4	2	3.5	1.25	16.2
	1755	180T	TEFC	89.5	0.82	6.38	14.9	0.4952	K	8.5	2.5	2.1	3.3	1.25	16.6
	1170	210T	TEFC	89.5	0.73	7.17	22.5	1.4001	J	6.5	1.9	1.5	2.8	1.25	18.8
7.5	3530	180T	TEFC	89.5	0.90	8.72	11.2	0.3208	K	9.5	2.4	2	3.5	1	16.6
	3540	210T	TEFC	89.5	0.89	8.82	11.1	0.6345	L	10.2	2.4	2	3.5	1.25	18
	1765	210T	TEFC	91.7	0.83	9.23	22.3	1.0102	L	9.8	2.7	2.3	3.5	1.25	18.8
10	3540	210T	TEFC	90.2	0.90	11.5	14.8	0.7330	L	9.9	2.4	2	3.5	1.25	18.8
	1765	210T	TEFC	91.7	0.84	12.2	29.8	1.1519	L	9.9	2.7	2.3	3.5	1.25	19.6
15	3540	210T	TEFC	91.0	0.91	16.9	22.3	0.8315	L	10.5	2.4	2	3.5	1.25	20.4

S.S. MOTOR

TSSN series

Hygienic Motors IP69K in stainless steel AISI 316L



- 0,12..1,5kW – 4 poles
- IEC 63..90 B5 B14
- Δ/Y 230/400V/50Hz
- Protection grade IP69K
- Class F – IC410 - SERVICE S1
- Stainless steel 316L
- Efficiency class IE3

Motors in stainless steel AISI 316L for the food, pharmaceutical industries and other applications which require extreme cleaning and frequent washing.

The entire design of the motor TSSN has been studied so that the processing waste can be washed away without leaving residues and the motor can be used with trust in food and pharmaceutical production processes where it is essential to ensure maximum hygiene.

When the processing machines of food, beverage, pharmaceutical and cosmetic products are washed, the motors, together with other mechanical parts are often exposed to high pressure water jets, high temperatures and aggressive detergents.

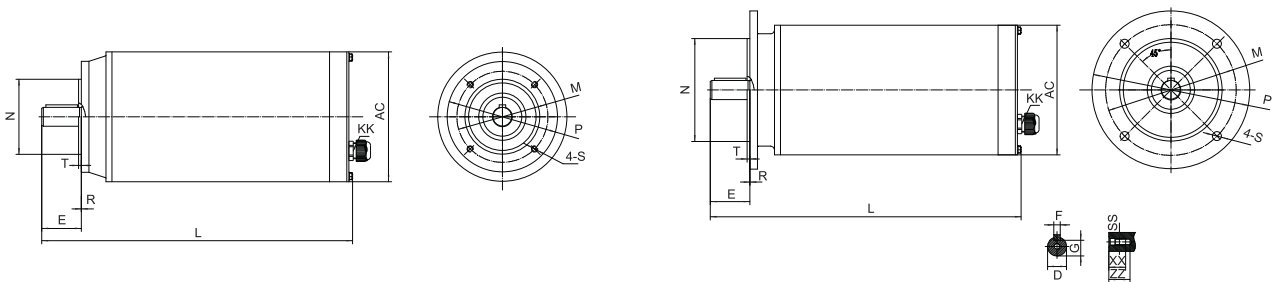
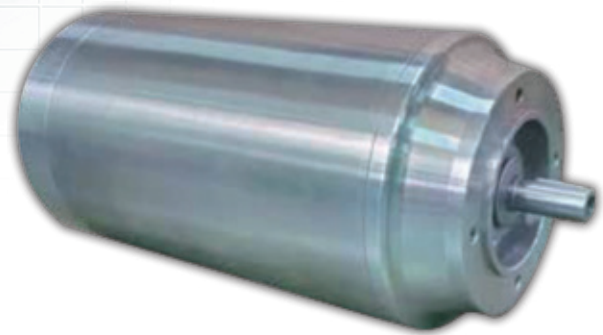
The motors TSSN in stainless steel of UCAN can resist to these operating conditions, which normally damage other types of motors and can even contaminate the final product.

Unlike the standard motors, in fact, the TSSN range does not have cooling wings, the surface is completely rust-resistant and without paint, and the marking is engraved on the outer back cover to reduce areas where bacteria can form.

S.S. MOTOR

Structural Characteristics

- All external components made of stainless steel AISI 316L;
- Motor shaft in stainless steel AISI 420 with magnetic properties;
- Screws in AISI316L;
- Not painted, in order to avoid possibility of paint crack;
- All the surfaces are completely smooth;
- These elements guarantee excellent corrosion resistance, reliability and maximum hygiene.
- Tubular casing without welding, back connection box, attractive look
- Stator and rotor coated with antioxidant paint
- Sealing ring and O-Rings in Viton guarantee a degree of protection IP69K
- The motors are suitable for operation with INVERTER with a wide range of constant torque, thanks to low-loss rollers, impregnation of vacuum coils, inverter duty copper wire.
- The motors TSSN are certified for IP69K protection degree according to DIN 40050 / IEC60529, which can resist to high pressure washing and steam cleaning up to 80-100bar with water of 80°C
- Completely enclosed non-ventilated (IC410) and completely smooth surfaces for ultra-hygienic clean lines



Overall & Installation Dimensions

Frame	Shaft							B5					B14					General						
	D	E	F	G	SS	XX	ZZ	N	M	P	S	T	R	N	M	P	S	T	R	Bearing DE	Bearing ODE	KK	AC	L
63A/63B	Ø11	23	4	8.5	M4	10	14	Ø95	Ø115	Ø140	Ø10	3	0	Ø60	Ø75	Ø90	M5	2.5	0	6202	6202	M16 x 1.5	Ø134	229/244
71A/71B	Ø14	30	5	11	M5	12	17	Ø110	Ø130	Ø160	Ø10	3.5	0	Ø70	Ø85	Ø105	M6	2.5	0	6202	6202	M20 x 1.5	Ø134	266/286
80A/80B	Ø19	40	6	15.5	M6	16	21	Ø130	Ø165	Ø200	Ø12	3.5	0	Ø80	Ø100	Ø120	M6	3	0	6205	6203	M20 x 1.5	Ø164	280/305
90S/90L	Ø24	50	8	20	M8	19	25	Ø130	Ø165	Ø200	Ø12	3.5	0	Ø95	Ø115	Ø140	M8	3	0	6205	6203	M20 x 1.5	Ø164	345/390

TSSN Series Technical Data (at 50Hz)

Model	Power	Current (A)400V	Speed	Eff. 100%	Eff. 75%	Eff. 50%	Power factor cos φ	Tst/Tn (Times)	Tmax/Tn (Times)	Tmin/Tn (Times)	Ist/In (Times)	Tn n.m	Moment of inertia (kg·m ²)
TSSN63A-4	0.12	0.37	1430	72.0	70.0	66.0	0.65	2.8	3.0	2.5	6.5	0.80	0.00110
TSSN63B-4	0.18	0.52	1430	75.0	73.5	70.0	0.67	2.8	3.0	2.5	6.5	1.20	0.00150
TSSN71A-4	0.25	0.68	1430	77.0	76.0	73.0	0.69	2.8	3.0	2.5	6.5	1.67	0.00180
TSSN71B-4	0.37	0.95	1430	79.0	78.5	75.5	0.71	2.8	3.0	2.5	6.5	2.47	0.00230
TSSN80A-4	0.55	1.36	1450	81.0	80.5	79.0	0.72	3.3	3.6	3.0	8	3.62	0.00410
TSSN80B-4	0.75	1.77	1450	82.5	82.0	80.0	0.74	3.3	3.6	3.0	8	4.94	0.00530
TSSN90S-4	1.1	2.48	1450	84.1	84.1	82.5	0.76	3.3	3.6	3.0	8	7.24	0.00750
TSSN90L-4	1.5	3.25	1450	85.3	85.3	84.0	0.78	3.3	3.6	3.0	8.5	9.88	0.01000

HVAC Resilient Cradle Motors

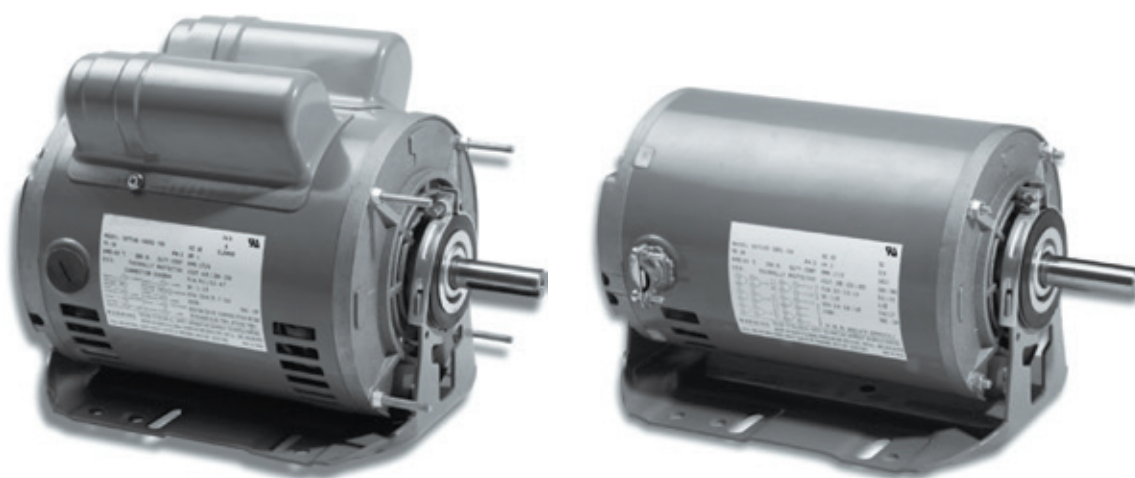
- **Capacitor Start Capacitor Run**
- **Three Phase Induction Run**

S tandard Motor Specifications

- Open Drip Proof
- 3.3" Resilient Cradle / Thru Bolt Mount (Ridgid Base available)
- Dual VOLTAGE 115/208–230V Single Phase
- Dual VOLTAGE 230/460V Three Phase
- Class F Insulation – 40°C Ambient
- Single Phase Automatic Reset Thermal Protection – UL2111
- Three Phase Automatic Reset Thermal Protection – UL1004
- Inverter Duty Available

TYPICAL APPLICATIONS

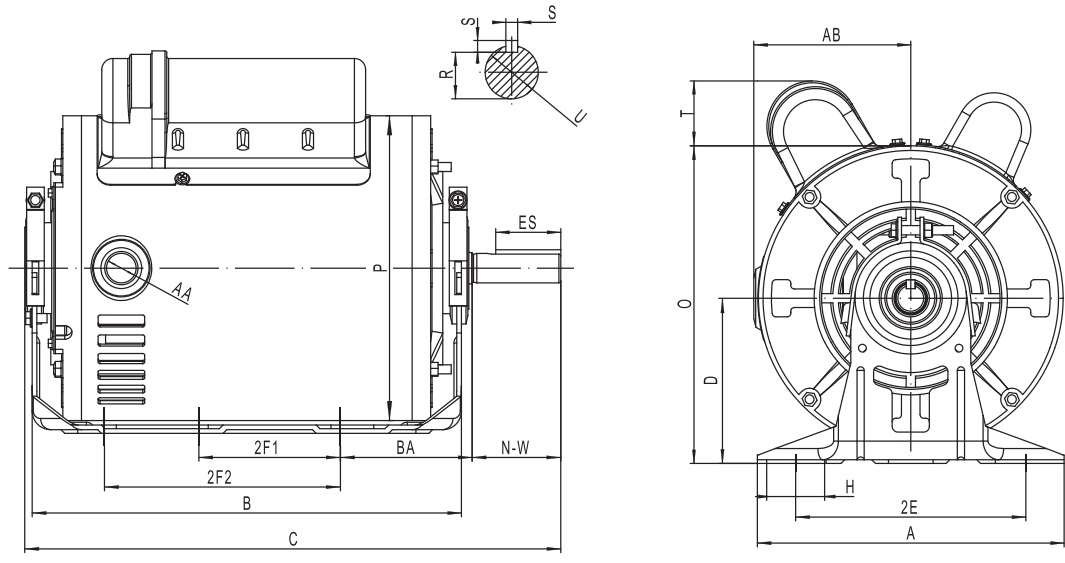
- Centrifugal Blowers
- Ventilators
- Roof vents
- Tubeaxial Fans
- Sidewall Ventilators
- Tubeaxial Blowers Evaporative Coolers



MEMA MOTOR

※ All dimensions are as standard and can be customized to meet your requirements

H VAC Resilient Cradle Single-Phase Motors Dimensional Drawings



O Overall & Installation Dimensions

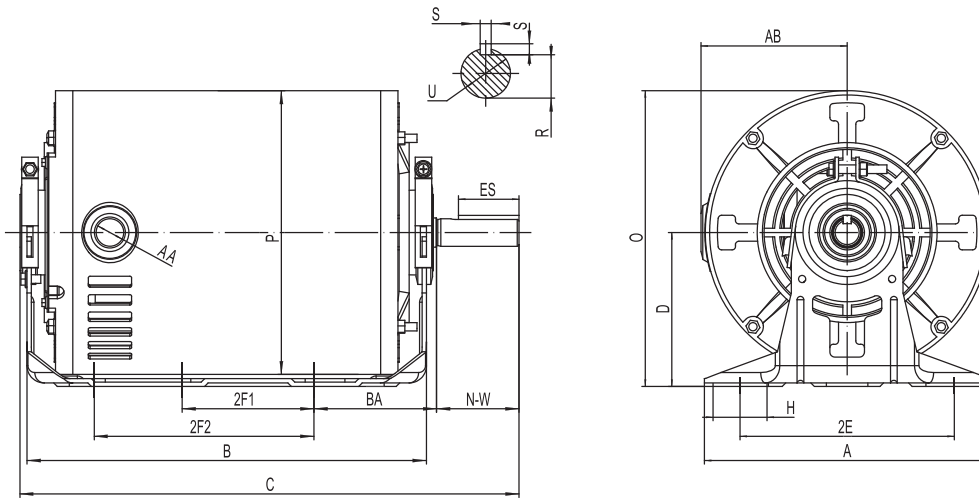
Frame	A	B	D	2E	2F1	2F2	BA	H	U	N-W	R	ES	S	AA	AB	O	T	P	Bearing DE	Bearing NDE
48	5.63	7.6/8.1/8.5	3.0	4.24	2.75		2.50	1.09×0.34	0.50	1.50	0.453			1/2-14NPT	2.92	5.83	1.47	5.67	6203	6203
56	6.40	7.6/8.1/8.5/9.1	3.5	4.88	3		2.75	1.09×0.34	0.625	1.875	0.517	1.375	0.1875	1/2-14NPT	2.92	6.33	1.47	5.67	6203	6203
56H	6.54	9.6/11.1	3.5	4.88	3	5	2.75	1.22×0.34	0.625	1.875	0.517	1.375	0.1875	1/2-14NPT	3.33	6.75	1.47	6.46	6203	6203
140T	6.55	9.1/9.6/11.1	3.5	5.5	4	5	2.25	0.34	0.875	2.25	0.771	1.375	0.1875	1/2-14NPT	3.33	6.75	1.47	6.46	6205	6203

HVAC Resilient Cradle Single-Phase Motors Technical Data

HP	Full Load Speed, RPM	Frame Size	EFF. 100% FL	Power Factor 100% FL	IFL 230V A	Full Load Torque Lb-Ft	Moment Of Inertia Lb-Ft Squared	Locked Rotor		TST TFL	TM TFL	Service Factor	Dim "C"
								KVA Code	II/in				
1/4	3500	48	66.6	90	1.31	0.36	0.0069	L	8.00	3.1	2.2	1.15	9.6
		56											10
	1740	48	68.5	81	1.41	0.72	0.0261	K	6.20	3	2.4	1.15	10.1
		56											10.5
1/3	3500	48	70.5	90	1.71	0.5	0.0073	L	8.00	3.1	2.3	1.15	10.1
		56											10.5
	1740	48	72.4	81	1.85	1.01	0.0355	K	6.70	3.3	2.5	1.15	10.5
		56											10.9
1/2	3510	48	72.4	90	2.47	0.74	0.0085	L	8.20	3.3	2.6	1.15	10.5
		56											10.9
	1740	48	76.2	83	2.54	1.49	0.0451	H	5.80	2.8	2.4	1.15	11.1
		56											11.5
3/4	3510	48	76.2	92	3.41	1.10	0.0104	K	8.20	3.3	2.5	1.15	11.1
		56											11.5
	1750	56H	81.8	90	3.25	2.21	0.0854	H	6.50	2.7	2.3	1.15	12
		140T											12.3
1	3500	56H	80.4	92	4.41	1.50	0.0356	H	7.0	3.3	2.5	1.15	11.5
		140T											11.8
	1750	56H	82.6	90	4.39	3.01	0.1079	H	7.0	2.8	2.5	1.15	13.5
		140T											13.8
1.5	3500	56H	81.5	96	6.11	2.21	0.045	H	7.5	3.2	2.7	1.15	12
		140T											12.3
2	3500	56H	82.9	96	8.19	3.01	0.0522	H	6.8	3.1	2.6	1.15	13.5
		140T											13.8

MEMA MOTOR

H HVAC Resilient Cradle Three-Phase Motors Dimensional Drawings



Overall & Installation Dimensions

Frame	A	B	D	2E	2F1	2F2	BA	H	U	N-W	R	ES	S	AA	AB	O	T	P	Bearing DE	Bearing NDE
48	5.6 3	7.6/8.1/8.5	3.0	4.24	2.75	2.50	1.09×0.34	0.50	1.50	0.453	1.375	0.1875	1/2-14NPT	2.92	5.83	5.67	6.203	6.203		
56	6.40	7.6/8.1/8.5/9.1	3.5	4.88	3	2.75	1.09×0.34	0.625	1.875	0.517	1.375	0.1875	1/2-14NPT	2.92	6.33	5.67	6.203	6.203		
56H	6.54	9.6/11.1	3.5	4.88	3	5	2.75	1.22×0.34	0.625	1.875	0.517	1.375	0.1875	1/2-14NPT	3.33	6.75	6.46	6.203	6.203	
140T	6.55	9.1/9.6/11.1	3.5	5.5	4	5	2.25	0.34	0.875	2.25	0.771	1.375	0.1875	1/2-14NPT	3.33	6.75	6.46	6.205	6.203	

HVAC Resilient Cradle Three-Phase Motors Technical Data

HP	Full Load Speed, RPM	Frame Size	EFF. 100% FL	Power Factor 100% FL	IFL 460V A	Full Load Torque Lb-Ft	Moment Of Inertia Lb-Ft Squared	Locked Rotor		TST TFL	TPU TFL	TM TFL	Service Factor	Dim "C"
								KVA Code	II/in					
1/4	3450	48	65.6	70.0	0.51	0.38	0.0064	M	6.60	2.8	2.2	3.4	1.25	9.6
		56												10
	1740	48	69.5	62.0	0.54	0.76	0.0216	L	5.70	2.9	2.4	3.7	1.25	9.6
		56												10
1/3	3450	48	69.5	70.0	0.64	0.51	0.0069	M	6.70	2.7	2	3.3	1.25	10.1
		56												10.5
		56												10.5
	1740	48	73.4	64.0	0.66	1.00	0.0261	L	6.20	3.2	2.7	3.7	1.25	10.1
		56												10.5
		56												10.5
1/2	3450	48	73.4	72.0	0.88	0.76	0.0079	L	6.90	2.6	2	3.3	1.25	10.5
		56												10.9
	1740	48	78.2	66.0	0.91	1.51	0.0327	L	6.40	3.1	2.6	3.5	1.25	10.5
		56												10.9
3/4	3450	48	76.8	75.0	1.22	1.14	0.0092	L	7.00	2.6	2	3	1.25	10.4
		56												10.9
		56												10.9
	1740	48	81.1	68.0	1.28	2.27	0.0451	L	7.00	3.2	2.5	3.4	1.25	11.1
		56												11.5
		56												11.5
1	3450	56H	81.0	78.0	1.48	1.52	0.0304	K	7.3	3.5	3.1	4.25	1.25	11.5
		140T												11.8
	1740	56H	85.5	70.0	1.56	3.02	0.1023	N	9.6	4.2	3.3	5.2	1.25	13.5
		140T												13.8
1.5	3500	56H	84.0	82.0	2.04	2.25	0.0356	L	8.5	2.75	2.4	3.75	1.25	12
		140T												12.3
	1740	56H	86.5	75.0	2.17	4.53	0.1210	M	9.0	3.4	2.9	4.35	1.25	11.5
		140T												11.8
2	3500	56H	85.5	83.0	2.64	3.00	0.0420	K	8.5	2.8	2.4	3.75	1.25	13.5
		140T												13.8
3	3500	56H	86.5	86.0	3.78	4.50	0.0558	K	8.9	2.85	2.15	3.7	1.25	12
		140T												12.3

MEMA MOTOR

SLD Series NEMA Single Phase Rolled Steel ODP Motors

Castiron endshield

1/4HP thru 10HP

• 48 thru 215T

FEATURES

- Service Factor 1.15
- Continuous Duty 40°C Ambient
- ODP Class F Insulation With Class B Temp Rise
- NEMA Design L
- High Starting Torque and Low Starting Current
- Rolled Steel construction
- Ball Bearings
- Capacitor Start/Capacitor Run (1/4 thru 10HP)

APPLICATIONS

- Commercial Pumps
- Swimming Pool Pumps
- Fans
- Conveyors
- Air Conditioning Equipment A.K.A HVAC
- Small Machine Tools
- Blowers
- Augers
- Household Electric Appliances
- Equipment Requiring Direct Drive and High Starting Torque

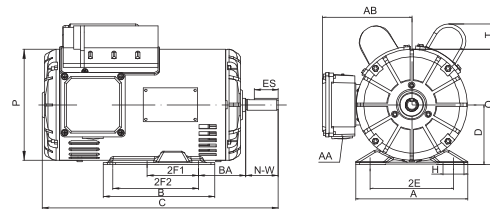


Figure1 48 thru 140T (Foot Mounting)

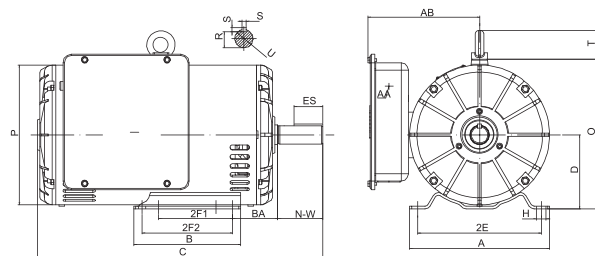


Figure2 180T, 210T (Foot Mounting)

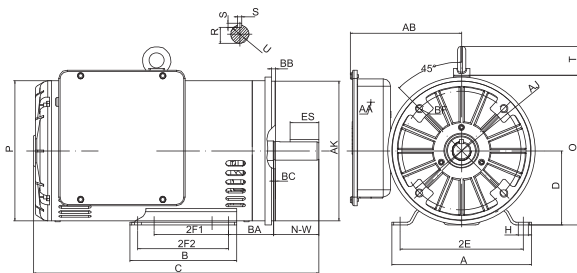


Figure3 180T, 210T (C- Face)

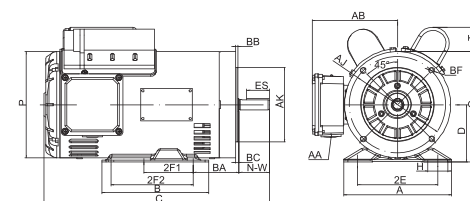


Figure4 48 thru 140T (C- Face)

MEMA MOTOR

Overall & Installation Dimensions

Frame	Foot Mounting								Shaft					General					Bearings		C- Face				
	A	B	D	2E	2F1	2F2	BA	H	U	N-W	R	ES	S	AA	AB	O	T	P	DE	NDE	AJ	AK	BB	BC	BF
48	5.69	3.94	3.0	4.24	2.75		2.50	1.05×0.34	0.50	1.50	0.453			0.866	4.77	5.83	1.47	5.67	6203	6202	3.750	3.0	0.16	-0.19	4×1/4-20UNC
56	6.54	4.02	3.5	4.88	3		2.75	1.22×0.34	0.625	1.875	0.517	1.375	0.1875	0.866	4.77	6.33	1.47	5.67	6204	6203	5.875	4.5	0.16	-0.19	4×3/8-16UNC
56H	6.54	6.5	3.5	4.88	3	5	2.75	1.22×0.34	0.625	1.875	0.517	1.375	0.1875	0.866	5.2	6.75	1.47	6.46	6205	6203	5.875	4.5	0.16	-0.19	4×3/8-16UNC
140T	6.55	5.9	3.5	5.5	4	5	2.25	0.5×0.35	0.875	2.25	0.771	1.375	0.1875	0.866	5.2	6.75	1.47	6.46	6205	6203	5.875	4.5	0.16	0.12	4×3/8-16UNC
180T	8.5	6.5	4.5	7.5	4.5	5.5	2.75	0.59×0.433	1.125	2.75	0.986	1.75	0.25	1.1/1.33	6.4	9.1	1.75	8.51	6206	6205	7.25	8.5	0.25	0.12	4×1/2-13UNC
210T	10.5	8.5	5.25	8.5	5.5	7	3.5	0.56×0.433	1.375	3.375	1.201	2.41	0.312	1.1/1.33	7.15	10.65	1.75	10.04	6208	6206	7.25	8.5	0.25	0.25	4×1/2-13UNC

S Single-Phase Rolled Steel Frame ODP Motors Technical Data

HP	Full Load Speed, RPM	Frame Size	EFF.100% FL	Power Factor 100% FL	IFL 230V A	Full Load Torque Lb-Ft	Moment Of Inertia Lb-Ft Squared	Locked Rotor		TST TFL	TM TFL	Service Factor	Dim "C"
								KVA Code	II/In				
1/4	3500	48	66.6	90	1.31	0.36	0.0069	L	8.00	3.1	2.2	1.15	10.8
		56											11.1
	1740	48	68.5	81	1.41	0.72	0.0261	K	6.20	3	2.4	1.15	10.8
		56											11.1
1/3	3500	48	70.5	90	1.71	0.5	0.0073	L	8.00	3.1	2.3	1.15	10.8
		56											11.1
	1740	48	72.4	81	1.85	1.01	0.0355	K	6.70	3.3	2.5	1.15	11.4
		56											11.7
1/2	3510	48	72.4	90	2.47	0.74	0.0085	L	8.20	3.3	2.6	1.15	11.4
		56											11.7
	1740	48	76.2	83	2.54	1.49	0.0451	H	5.80	2.8	2.4	1.15	12
		56											12
3/4	3510	48	76.2	92	3.41	1.10	0.0104	K	8.20	3.3	2.5	1.15	12
		56											12.3
	1750	56H	81.8	90	3.25	2.21	0.0854	H	6.50	2.7	2.3	1.15	12.9
		140T											13.3
1	3500	56H	80.4	92	4.41	1.50	0.0356	H	7.0	3.3	2.5	1.15	12.9
		140T											13.3
	1750	56H	82.6	90	4.39	3.01	0.1079	H	7.0	2.8	2.5	1.15	13.7
		140T											14.1
1.5	3500	56H	81.5	96	6.11	2.21	0.045	H	7.5	3.2	2.7	1.15	13.7
		140T											14.1
	1740	56H	83.8	96	5.94	4.45	0.1423	H	6.9	2.5	2.3	1.15	14.9
		140T											15.3
2	3500	56H	82.9	96	8.19	3.01	0.0522	H	6.8	3.1	2.6	1.15	13.7
		140T											14.1
	1740	56H	84.5	96	8.04	6.07	0.1637	G	6.5	2.6	2.0	1.15	15.7
		140T											16.1
3	3510	56H	84.1	98	11.6	4.41	0.0688	J	8.4	3.1	2.7	1.15	14.5
		140T											14.9
	3480	180T	80.0	96	12.5	4.45	0.1636	H	7.2	4.1	2.2	1.15	16
	1740	180T	82.5	92	12.6	8.90	0.3559	H	7.0	3.5	2.4	1.15	16
5	3490	180T	82.0	98	20.0	7.46	0.2017	H	7.0	3.5	2.0	1.15	17.4
	1740	180T	84.0	94	20.4	14.97	0.4746	G	6.4	3.2	2.2	1.15	17.4
7.5	3510	210T	84.5	98	28.9	11.03	0.4508	H	7.6	4.2	2.2	1.15	19.5
	1750	210T	82.0	94	31.1	22.13	0.9017	H	7.0	4	2.4	1.15	19.5
10	3520	210T	86.0	98	38.7	15.00	0.6169	H	8.0	3.9	2.4	1.15	20.9
	1750	210T	83.5	94	41.6	30.18	1.0916	H	7.3	3.5	2.2	1.15	20.9

MEMA MOTOR

SLD Series NEMA Single Phase Rolled Steel ODP Motors

Alu die casting endshield

1/4HP thru 3HP

• 48 thru 140T

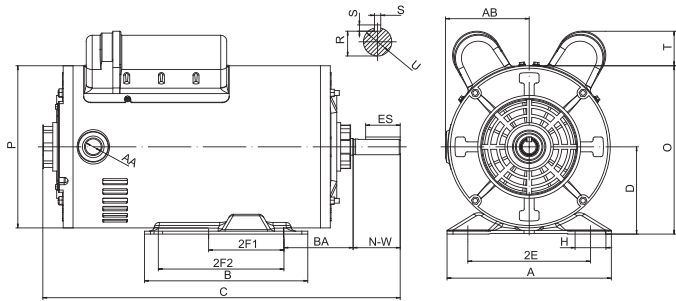


FEATURES

- Service Factor 1.15
- Continuous Duty 40°C Ambient
- ODP Class F Insulation With Class B Temp Rise
- NEMA Design L
- High Starting Torque and Low Starting Current
- Rolled Steel construction
- Ball Bearings
- Capacitor Start/Capacitor Run (1/4 thru 3HP)

APPLICATIONS

- Commercial Pumps
- Swimming Pool Pumps
- Fans
- Conveyors
- Air Conditioning Equipment A.K.A HVAC
- Small Machine Tools
- Blowers
- Augers
- Household Electric Appliances
- Equipment Requiring Direct Drive and High Starting Torque



Overall & Installation Dimensions

Frame	A	B	D	2E	2F1	2F2	BA	H	U	N-W	R	ES	S	AA	AB	O	T	P	Bearing DE	Bearing NDE
48	5.69	3.94	3.0	4.24	2.75		2.50	1.05×0.34	0.50	1.50	0.453			1/2-14NPT	2.92	5.83	1.47	5.67	6203	6203
56	6.54	4.02	3.5	4.88	3		2.75	1.22×0.34	0.625	1.875	0.517	1.375	0.1875	1/2-14NPT	2.92	6.33	1.47	5.67	6203	6203
56H	6.54	6.5	3.5	4.88	3	5	2.75	1.22×0.34	0.625	1.875	0.517	1.375	0.1875	1/2-14NPT	3.33	6.75	1.47	6.46	6203	6203
140T	6.55	5.9	3.5	5.5	4	5	2.25	0.5×0.35	0.875	2.25	0.771	1.375	0.1875	1/2-14NPT	3.33	6.75	1.47	6.46	6205	6203

Single-Phase Rolled Steel Frame ODP Motors Technical Data

HP	Full Load Speed, RPM	Frame Size	EFF.100% FL	Power Factor 100% FL	IFL 230V A	Full Load Torque Lb-Ft	Moment Of Inertia Lb-Ft Squared	Locked Rotor		TST TFL	TM TFL	Service Factor	Dim "C"
								KVA Code	II/In				
1/4	3500	48	66.6	90	1.31	0.36	0.0069	L	8.00	3.1	2.2	1.15	10.1
		56											10.5
1/4	1740	48	68.5	81	1.41	0.72	0.0261	K	6.20	3	2.4	1.15	10.1
		56											10.5
1/3	3500	48	70.5	90	1.71	0.5	0.0073	L	8.00	3.1	2.3	1.15	10.1
		56											10.5
1/3	1740	48	72.4	81	1.85	1.01	0.0355	K	6.70	3.3	2.5	1.15	10.7
		56											11.1
1/2	3510	48	72.4	90	2.47	0.74	0.0085	L	8.20	3.3	2.6	1.15	10.7
		56											11.1
1/2	1740	48	76.2	83	2.54	1.49	0.0451	H	5.80	2.8	2.4	1.15	11.3
		56											11.7
3/4	3510	48	76.2	92	3.41	1.10	0.0104	K	8.20	3.3	2.5	1.15	11.3
		56											11.7
3/4	1750	56H	81.8	90	3.25	2.21	0.0854	H	6.50	2.7	2.3	1.15	12.3
		140T											12.7
1	3500	56H	80.4	92	4.41	1.50	0.0356	H	7.0	3.3	2.5	1.15	12.3
		140T											12.7
1	1750	56H	82.6	90	4.39	3.01	0.1079	H	7.0	2.8	2.5	1.15	13.1
		140T											13.5
1.5	3500	56H	81.5	96	6.11	2.21	0.045	H	7.5	3.2	2.7	1.15	13.1
		140T											13.5
1.5	1740	56H	83.8	96	5.94	4.45	0.1423	H	6.9	2.5	2.3	1.15	14.3
		140T											14.7
2	3500	56H	82.9	96	8.19	3.01	0.0522	H	6.8	3.1	2.6	1.15	13.1
		140T											13.5
2	1740	56H	84.5	96	8.04	6.07	0.1637	G	6.5	2.6	2.0	1.15	15.1
		140T											15.5
3	3510	56H	84.1	98	11.6	4.41	0.0688	J	8.4	3.1	2.7	1.15	13.9
		140T											14.3

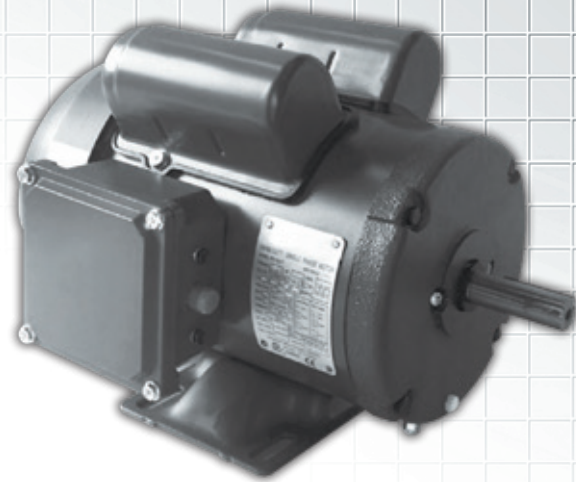
SLF Series NEMA Single Phase Rolled Steel TEFC Motors

1/4HP thru 10HP

• 48 thru 215T

FEATURES

- Continuous Duty 40°C Ambient
- TEFC (Totally Enclosed Fan Cooled)
- Class F Insulation With Class B Temp Rise
- NEMA Design L
- High Starting Torque and Low Starting Current
- Rolled Steel Construction
- Ball Bearings
- Capacitor Start/Capacitor Run (1/4 thru 10HP)



APPLICATIONS

- Commercial Pumps
- Swimming Pool Pumps
- Fans
- Conveyors
- Air Conditioning Equipment A.K.A HVAC
- Small Machine Tools
- Blowers
- Augers
- Household Electric Appliances
- Equipment Requiring Direct Drive and High Starting Torque

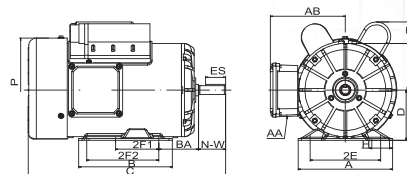


Figure 1 48 thru 140T (Foot Mounting)

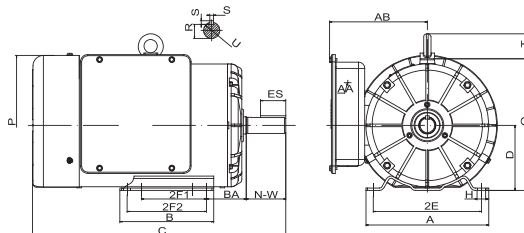


Figure 2 180T, 210T (Foot Mounting)

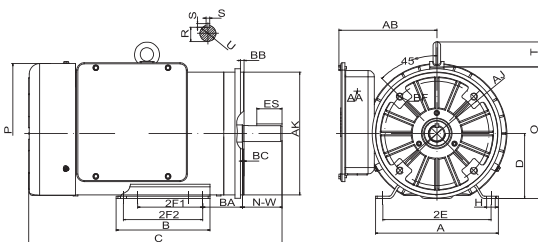


Figure 4 180T, 210T (C-Face)

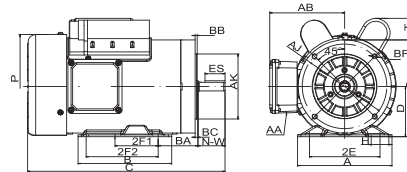


Figure 3 48 thru 140T (C-Face)

Overall & Installation Dimensions

Frame	Foot Mounting							Shaft					General				Bearings		C-Face						
	A	B	D	2E	2F1	2F2	BA	H	U	N-W	R	ES	S	AA	AB	O	T	P	DE	NDE	AJ	AK	BB	BC	BF
48	5.69	3.94	3.0	4.24	2.75	2.50	1.05×0.34	0.50	1.50	0.453				0.866	4.77	5.83	1.47	6.42	6203	6202	3.750	3.0	0.16	-0.19	4×1/4-20UNC
56	6.54	4.02	3.5	4.88	3	2.75	1.22×0.34	0.625	1.875	0.517	1.375	0.1875	0.866	4.77	6.33	1.47	6.42	6204	6203	5.875	4.5	0.16	-0.19	4×3/8-16UNC	
56H	6.54	6.5	3.5	4.88	3	5	2.75	1.22×0.34	0.625	1.875	0.517	1.375	0.1875	0.866	5.2	6.75	1.47	7.21	6205	6203	5.875	4.5	0.16	-0.19	4×3/8-16UNC
140T	6.55	5.9	3.5	5.5	4	5	0.5×0.35	0.875	2.25	0.771	1.375	0.1875	0.866	5.2	6.75	1.75	7.24	6205	6203	5.875	4.5	0.16	0.12	4×3/8-16UNC	
180T	8.5	6.5	4.5	7.5	4.5	5.5	0.59×0.433	1.125	2.75	0.986	1.75	0.25	1.1/1.33	6.4	9.1	1.75	9.7	6206	6205	7.25	8.5	0.25	0.12	4×1/2-13UNC	
210T	10.5	8.5	5.25	8.5	5.5	7	0.56×0.433	1.375	3.375	1.201	2.41	0.312	1.1/1.33	7.15	10.65	1.75	11.36	6208	6206	7.25	8.5	0.25	0.25	4×1/2-13UNC	

NEMA MOTOR

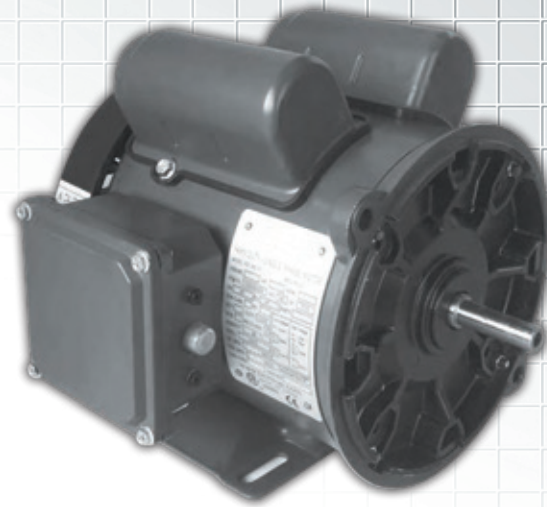
S Single-Phase Rolled Steel Frame TEFC Motors Technical Data

HP	Full Load Speed, RPM	Frame Size	EFF. 100% FL	Power Factor 100% FL	IFL 230V A	Full Load Torque Lb-Ft	Moment Of Inertia Lb-Ft Squared	Locked Rotor		TST TFL	TM TFL	Service Factor	Dim "C"	
								KVA Code	II/In					
1/4	3500	48	68	90	1.28	0.36	0.0069	L	8.4	3.1	2.2	1.15	11	
		56											11.3	
	1735	48	70.0	83	1.35	0.72	0.0237	K	6.5	2.6	2.3	1.15	11	
		56											11.3	
1/3	3500	48	72.0	90	1.7	0.5	0.0073	L	8.4	3.1	2.3	1.2	11	
		56											11.3	
	1735	48	74.0	83	1.77	1.01	0.0261	K	6.6	3.1	2.6	1.15	11	
		56											11.3	
1/2	3510	48	74.0	90	2.4	0.7	0.0085	L	8.6	3.3	2.6	1.15	11.6	
		56											11.9	
	1730	48	77.0	85	2.46	1.49	0.0355	J	6.6	3.3	2.4	1.15	11.6	
		56											11.9	
3/4	3510	48	77.0	92	3.38	1.10	0.0104	K	8.2	3.3	2.6	1.15	12.2	
		56											12.5	
	1730	48	78.5	87	3.5	2.24	0.0451	H	6.2	2.7	2.3	1.15	12.2	
		56											12.5	
1	3500	56H	78.5	92	4.51	1.50	0.0356	H	6.7	3.3	2.4	1.15	12.9	
		140T											13.3	
	1740	56H	80.0	90	4.53	3.01	0.0854	H	6.1	2.8	2.4	1.15	12.9	
		140T											13.3	
1.5	3500	56H	81.5	96	6.11	2.21	0.045	H	7.5	3.2	2.6	1.15	13.7	
		140T											14.1	
	1740	56H	81.5	92	6.38	4.45	0.1079	H	6.3	2.5	2.3	1.15	13.7	
		140T											14.1	
2	3500	56H	82.5	96	8.23	3.01	0.0522	G	6.5	3.1	2.5	1.15	13.7	
		140T											14.1	
	1735	56H	82.5	92	8.59	6.07	0.1305	G	6.1	2.4	2.2	1.15	14.5	
		140T											14.9	
3	3510	56H	84.0	98	11.7	4.41	0.0688	J	8.4	3.1	2.7	1.15	14.5	
		140T											14.9	
	3480	180T	80.0	96	12.5	4.45	0.1636	H	7.2	4.1	2.2	1.15	16.2	
5	1740	180T	82.5	92	12.6	8.90	0.3559	H	7.0	3.5	2.4	1.15	16.2	
		3490	180T	82.0	98	20.0	7.46	0.2017	H	7.0	3.5	2.0	1.15	17.6
7.5	1740	180T	84.0	94	20.4	14.97	0.4746	G	6.4	3.2	2.2	1.15	17.6	
		3510	210T	84.5	98	28.9	11.03	0.4508	H	7.6	4.2	2.2	1.15	19.9
10	1750	210T	82.0	94	31.1	22.13	0.9017	H	7.0	4	2.4	1.15	19.9	
		3520	210T	86.0	98	38.7	15.00	0.6169	H	8.0	3.9	2.4	1.15	21.3
		1750	210T	83.5	94	41.6	30.18	1.0916	H	7.3	3.5	2.2	1.15	21.3

AUGER Motors

FEATURES

- Manual Reset Protectors
- High Efficiency Dual Cap Design
- High Quality Molded Gaskets
- High Starting Torque



S Single-Phase Rolled Steel Frame TEFC AUGER Motors Dimensional Drawings

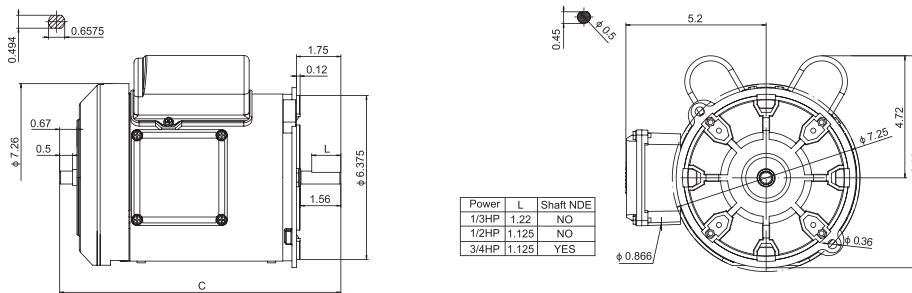


Figure 1 1/3HP, 1/2HP, 3/4HP

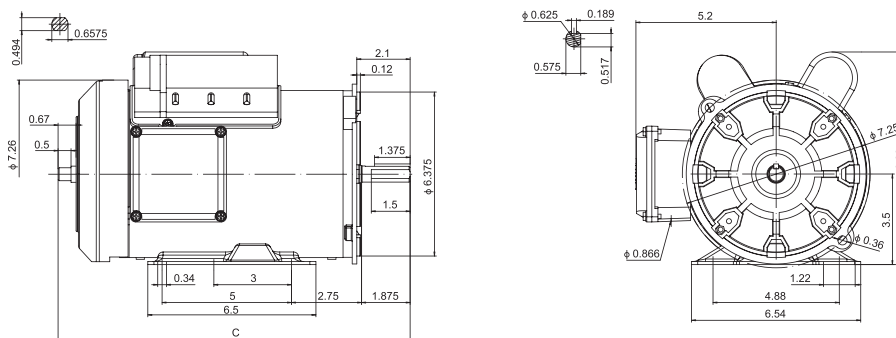


Figure 2 1HP, 1 1/2HP, 2HP

S Single-Phase Rolled Steel Frame TEFC AUGER Motors Technical Data

HP	Full Load Speed, RPM	Frame Size	EFF. 100% FL	Power Factor 100% FL	IFL 230V A	Full Load Torque Lb-Ft	Moment Of Inertia Lb-Ft Squared	Locked Rotor KVA Code	II/In	TST TFL	TM TFL	Service Factor	Dim "C"
1/3	1735	56	74.0	83	1.77	1.01	0.0261	K	6.6	3.1	2.6	1.15	10.26
1/2	1730	56	77.0	85	2.46	1.49	0.0355	J	6.6	3.3	2.4	1.15	10.26
3/4	1730	56	78.5	87	3.5	2.24	0.0451	H	6.2	2.7	2.3	1.15	12.53
1	1740	140T	80.0	90	4.53	3.01	0.0854	H	6.1	2.8	2.4	1.15	12.88
1.5	1740	140T	81.5	92	6.38	4.45	0.1079	H	6.3	2.5	2.3	1.15	13.62
2	1735	140T	82.5	92	8.59	6.07	0.1305	G	6.1	2.4	2.2	1.15	14.39

MEMA MOTOR

TXD Series NEMA Premium Efficiency Rolled Steel 3-Phase ODP Motors

1/4HP thru 15HP

• 48 thru 215T

FEATURES

- 208-230/460V/60Hz
- NEMA Service Factor 1.15
- Continuous Duty 40°C Ambient
- Class F Insulation With Class B Temp Rise
- High Efficiency
- NEMA Design B
- Ball Bearings
- Rolled Steel Construction
- Stainless Steel Nameplate

APPLICATIONS

- Pumps
- Compressors
- Fans
- Conveyors
- Machine Tools
- Three Phase or Other General Purpose Applications

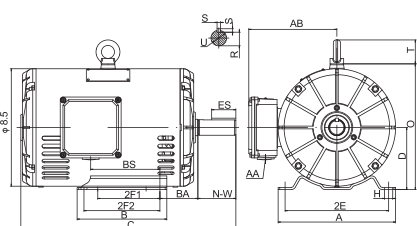


Figure 1 48 thru 210T (Foot Mounting)

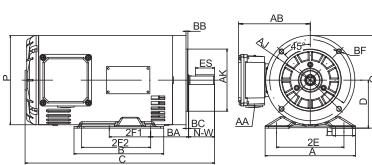


Figure 2 48 thru 140T (C- Face)

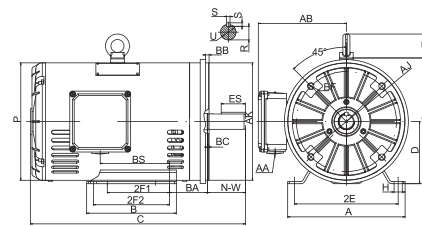


Figure 3 180T, 210T (C- Face)

MEMA MOTOR

Overall & Installation Dimensions

Frame	Foot Mounting								Shaft					General				Bearings		C-Face					
	A	B	D	2E	2F1	2F2	BA	H	U	N-W	R	ES	S	AA	AB	O	T	P	DE	NDE	AJ	AK	BB	BC	BF
48	5.69	3.94	3.0	4.24	2.75	2.50	1.05×0.34	0.50	1.50	0.453				1/2-14NPT	4.77	5.83		6.42	6203	6202	3.750	3.0	0.16	-0.19	4×3/8-20UNC
56	6.54	4.02	3.5	4.88	3	2.75	1.22×0.34	0.625	1.875	0.517	1.375	0.1875		1/2-14NPT	4.77	6.33		5.67	6204	6203	5.875	4.5	0.16	-0.19	4×3/8-16UNC
56H	6.54	6.5	3.5	4.88	3	5	2.75	1.22×0.34	0.625	1.875	0.517	1.375	0.1875	1/2-14NPT	5.2	6.75		6.46	6205	6203	5.875	4.5	0.16	-0.19	4×3/8-16UNC
140T	6.55	5.9	3.5	5.5	4	5	2.25	0.5×0.35	0.875	2.25	0.771	1.375	0.1875	3/4-14NPT	5.2	6.75		6.46	6205	6203	5.875	4.5	0.16	0.12	4×3/8-16UNC
180T	8.5	6.5	4.5	7.5	4.5	5.5	2.75	0.59×0.433	1.125	2.75	0.986	1.75	0.25	3/4-14NPT	6.4	9.1	1.75	8.5	6206	6205	7.25	8.5	0.25	0.12	4×1/2-13UNC
210T	10.5	8.5	5.25	8.5	5.5	7	3.5	0.56×0.433	1.375	3.375	1.201	2.41	0.312	1-11 1/2NPT	7.15	10.65	1.75	10.05	6208	6206	7.25	8.5	0.25	0.25	4×1/2-13UNC

Three-Phase Rolled Steel Frame ODP Motors Technical Data

HP	Full Load Speed, RPM	Frame Size	EFF. 100% FL	Power Factor 100% FL	IFL 460V A	Full Load Torque Lb-Ft	Moment Of Inertia Lb-Ft Squared	Locked Rotor		TST TFL	TPU TFL	TM TFL	Service Factor	Dim "C"	
								KVA Code	II/In						
1/4	3450	48	65.6	70.0	0.51	0.38	0.0064	M	6.60	2.8	2.2	3.4	1.25	10.2	
		56												10.6	
	1740	48	69.5	62.0	0.54	0.76	0.0216	L	5.70	2.9	2.4	3.7	1.25	10.2	
		56												10.6	
		1150	56	67.5	59.0	0.59	1.14	0.0484	L	5.00	2.1	1.8	3.3	1.25	12.2
	1/3	3450	48	69.5	70.0	0.64	0.51	0.0069	M	6.70	2.7	2	3.3	1.25	11.0
56			11.4												
1740		48	73.4	64.0	0.66	1.00	0.0261	L	6.20	3.2	2.7	3.7	1.25	11.0	
		56												11.4	
		1150	56	71.4	60.0	0.73	1.51	0.0586	L	5.20	2.1	1.8	3.3	1.25	12.2
1/2		3450	48	73.4	72.0	0.88	0.76	0.0079	L	6.90	2.6	2	3.3	1.25	11.0
	56		11.4												
	1740	48	78.2	66.0	0.91	1.51	0.0327	L	6.40	3.1	2.6	3.5	1.25	11.0	
		56												11.4	
		1150	56	75.3	63.0	0.99	2.28	0.0785	K	5.20	2.1	1.9	3.3	1.25	13.0
	3/4	3450	48	76.8	75.0	1.22	1.14	0.0092	L	7.00	2.6	2	3	1.25	11.8
56			12.2												
1740		48	81.1	68.0	1.28	2.27	0.0451	L	7.00	3.2	2.5	3.4	1.25	11.8	
		56												12.2	
		1150	56	81.7	65.0	1.33	3.43	0.0785	J	5.30	2.1	2	3	1.25	13.0
1		3450	56H	81.0	78.0	1.48	1.52	0.0304	K	7.3	3.5	3.1	4.25	1.25	12.9
	140T		13.3												
	1740	56H	85.5	70.0	1.56	3.02	0.1023	N	9.6	4.2	3.3	5.2	1.25	13.7	
		140T												14.1	
	1150	56H	82.5	66.0	1.72	4.57	0.0885	J	5.3	2.2	2	2.95	1.25	13.7	
		140T												14.1	
1.5	3500	56H	84.0	82.0	2.04	2.25	0.0356	L	8.5	2.75	2.4	3.75	1.25	12.9	
		140T												13.3	
	1740	56H	86.5	75.0	2.17	4.53	0.1210	M	9.0	3.4	2.9	4.35	1.25	14.3	
		140T												14.7	
		1165	180T	86.5	71.0	2.28	6.77	0.3583	J	6.5	1.85	1.25	2.9	1.25	14.8
	2	3500	56H	85.5	83.0	2.64	3.00	0.0420	K	8.5	2.8	2.4	3.75	1.25	12.9
140T			13.3												
1740		56H	86.5	79.0	2.74	6.04	0.1424	L	8.5	3.25	2.9	4.0	1.25	15.1	
		140T												15.5	
		1165	180T	87.5	72.0	2.97	9.02	0.4176	J	6.2	1.8	1.2	2.8	1.25	14.8
3		3500	56H	86.5	86.0	3.78	4.50	0.0558	K	8.9	2.85	2.15	3.7	1.25	13.7
	140T		14.1												
	1755	180T	89.5	82.0	3.83	8.98	0.3370	K	8.3	2.35	1.7	3.35	1.25	14.8	
		1170	210T	88.5	74.0	4.29	13.47	0.7689	J	6.6	1.9	1.5	2.8	1.25	17.2
	5	3510	180T	87.5	90.0	5.95	7.49	0.1637	J	7.7	1.9	1.4	3.0	1.25	14.8
		1755	180T	89.5	84.0	6.25	14.97	0.4034	J	7.7	2.2	1.8	3.1	1.25	15.6
1170		210T	89.5	75.0	7.00	22.46	1.0417	H	6.5	2	1.3	2.6	1.25	18.0	
7.5	3510	180T	88.5	91.0	8.70	11.23	0.2017	J	8.1	2.2	1.5	3.0	1.25	15.6	
	1755	210T	91.0	85.0	9.10	22.46	0.7665	K	8.4	2.3	1.6	3.15	1.25	18.0	
10	3520	210T	89.5	91.5	11.5	14.93	0.4509	J	8.3	2.15	1.35	2.85	1.25	18.0	
	1755	210T	91.7	85.0	12.0	29.94	0.8756	K	8.7	2.3	1.5	3.2	1.25	18.8	
15	3530	210T	90.2	91.5	17.1	22.33	0.5695	J	8.1	1.9	1.2	2.8	1.25	18.8	

MEMA MOTOR

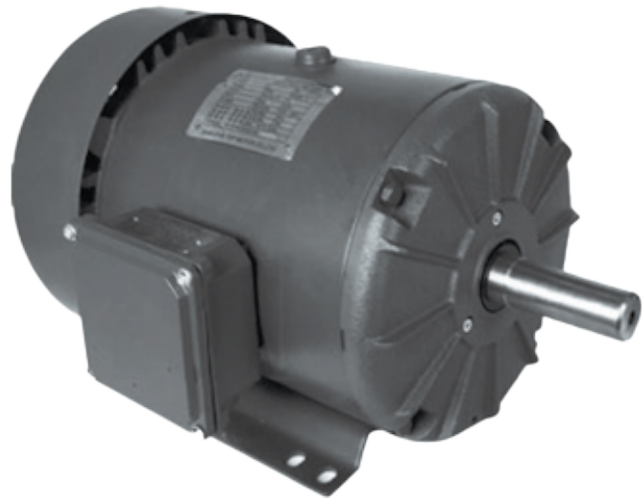
TF Series NEMA Premium Efficiency Rolled Steel 3-Phase TEFC Motors

1/4HP thru 10HP

• 48 thru 215T

FEATURES

- 208-230/460V/60Hz
- NEMA Service Factor 1.15
- Continuous Duty 40°C Ambient
- Class F Insulation With Class B Temp Rise
- High Efficiency
- NEMA Design B
- Ball Bearings
- Rolled Steel Construction
- IP55 Protection
- Stainless Steel Nameplate



APPLICATIONS

- Pumps
- Compressors
- Fans
- Conveyors
- Machine Tools
- Three Phase or Other General Purpose Applications

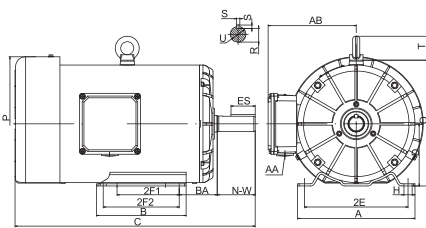


Figure 1 48 thru 210T(Foot Mounting)

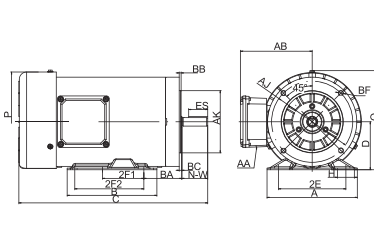


Figure 2 48 thru 140T(C- Face)

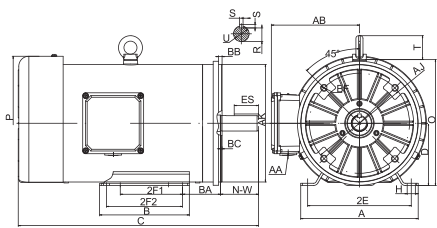


Figure 3 180T, 210T(C- Face)

MEMA MOTOR

Overall & Installation Dimensions

Frame	Foot Mounting						Shaft						General				Bearings		C-Face						
	A	B	D	2E	2F1	2F2	BA	H	U	N-W	R	ES	S	AA	AB	O	T	P	DE	NDE	AJ	AK	BB	BC	BF
48	5.69	3.94	3.0	4.24	2.75		2.50	1.05×0.34	0.50	1.50	0.453			1/2-14NPT	4.77	5.83		6.42	6203	6202	3.750	3.0	0.16	-0.19	4×1/4-20UNC
56	6.54	4.02	3.5	4.88	3		2.75	1.22×0.34	0.625	1.875	0.517	1.375	0.1875	1/2-14NPT	4.77	6.33		6.42	6204	6203	5.875	4.5	0.16	-0.19	4×3/8-16UNC
56H	6.54	6.5	3.5	4.88	3	5	2.75	1.22×0.34	0.625	1.875	0.517	1.375	0.1875	1/2-14NPT	5.2	6.75		7.21	6205	6203	5.875	4.5	0.16	-0.19	4×3/8-16UNC
140T	6.55	5.9	3.5	5.5	4	5	2.25	0.5×0.35	0.875	2.25	0.771	1.375	0.1875	3/4-14NPT	5.2	6.75		7.24	6205	6203	5.875	4.5	0.16	0.12	4×3/8-16UNC
180T	8.5	6.5	4.5	7.5	4.5	5.5	2.75	0.59×0.433	1.125	2.75	0.986	1.75	0.25	3/4-14NPT	6.4	9.1	1.75	9.7	6206	6205	7.25	8.5	0.25	0.12	4×1/2-13UNC
210T	10.5	8.5	5.25	8.5	5.5	7	3.5	0.56×0.433	1.375	3.375	1.201	2.41	0.312	1-11 1/2NPT	7.15	10.65	1.75	11.36	6208	6206	7.25	8.5	0.25	0.25	4×1/2-13UNC

Three-Phase Rolled Steel Frame TEFC Motors Technical Data

HP	FULL LOAD SPEED rpm	FRAME	ENCLOSURE	EFF. 100%	POWER FACTOR (cos Φ)	IFL 460V A	FULL LOAD TORQUE lb-ft	MOMENT OF INERTIA lb-ft squared	LOCKED ROTOR		TST TFL	TPU TFL	TM TFL	SERVICE FACTOR	C
									KVA CODE	II/In					
1/4	3470	48, 56	TEFC	66.0	0.73	0.49	0.38	0.0064	M	6.80	3.8	3.5	4	1.25	11, 11.4
	1740	48, 56	TEFC	70.0	0.60	0.56	0.75	0.0216	M	5.70	3	2.8	3.8	1.25	11, 11.4
	1160	56	TEFC	72.0	0.58	0.56	1.13	0.0484	K	5.00	2.1	2	3.3	1.25	11.1
	870	56	TEFC	66.0	0.47	0.75	1.51	0.0586	L	3.90	2.2	2.1	3.1	1.25	12
1/3	3470	48, 56	TEFC	72.0	0.75	0.57	0.50	0.0069	M	7.30	3.8	3.5	4	1.25	11, 11.4
	1740	48, 56	TEFC	74.0	0.62	0.67	1.00	0.0261	M	6.30	3	2.8	3.8	1.25	11, 11.4
	1160	56	TEFC	74.0	0.59	0.71	1.49	0.0586	K	5.20	2.1	2	3.3	1.25	11.5
	870	56	TEFC	69.0	0.48	0.93	1.99	0.0789	L	4.10	2.2	2.1	3.1	1.25	12
1/2	3470	48, 56	TEFC	74.0	0.79	0.80	0.76	0.0079	L	7.30	3.5	3.2	3.7	1.25	11.4, 11.8
	1740	48, 56	TEFC	78.5	0.65	0.92	1.51	0.0327	L	6.30	3.1	2.9	3.9	1.25	11.4, 11.8
	1160	56	TEFC	75.5	0.61	1.02	2.26	0.0785	K	5.20	2.1	2	3.1	1.25	11.5
	870	56H, 140T	TEFC	71.0	0.50	1.32	3.02	0.1106	K	4.20	2.2	2.1	3.1	1.25	13.3, 13.7
3/4	3470	48, 56	TEFC	77.0	0.82	1.11	1.14	0.0092	L	7.70	3.5	3.2	3.7	1.25	12.2, 12.6
	1740	48, 56	TEFC	81.5	0.66	1.31	2.26	0.0451	L	7.10	3.1	2.9	3.9	1.25	12.2, 12.6
	1160	56H, 140T	TEFC	81.5	0.62	1.39	3.40	0.1106	J	5.40	2.1	2	3.1	1.25	13.3, 13.7
	870	56H, 140T	TEFC	72.0	0.53	1.84	4.53	0.1348	K	4.20	2.1	2	3.1	1.25	13.3, 13.7
1	3510	56H, 140T	TEFC	80.0	0.79	1.48	1.50	0.0546	L	8.0	2.6	2.2	3.5	1.25	13.3, 13.7
	1750	56H, 140T	TEFC	85.5	0.71	1.54	3.00	0.1324	L	7.7	3	2.7	3.8	1.25	13.3, 13.7
	1160	56H, 140T	TEFC	82.5	0.63	1.80	4.53	0.1348	J	5.4	2.1	2	3.1	1	13.3, 13.7
	880	180T	TEFC	83.0	0.55	2.05	5.97	0.5206	K	5.1	1.8	1.6	2.7	1.25	15
1.5	3510	56H, 140T	TEFC	84.0	0.81	2.06	2.25	0.0631	L	8.5	2.6	2.2	3.5	1.25	13.3, 13.7
	1750	56H, 140T	TEFC	86.5	0.73	2.22	4.50	0.1566	K	7.5	3.1	2.9	3.9	1	13.3, 13.7
	1170	180T	TEFC	87.5	0.68	2.36	6.74	0.5206	K	6.8	2.1	1.5	3.1	1.25	15
	880	180T	TEFC	83.5	0.55	3.08	8.96	0.6101	K	5.1	1.8	1.6	2.7	1.25	15.4
2	3510	56H, 140T	TEFC	85.5	0.83	2.64	2.99	0.0802	L	8.7	2.5	2.2	3.2	1.25	13.3, 13.7
	1750	56H, 140T	TEFC	86.5	0.75	2.89	6.00	0.1887	K	7.8	3	2.7	3.8	1.25	14.1, 14.5
	1170	180T	TEFC	88.5	0.69	3.07	8.98	0.6103	K	7.0	2.1	1.5	3.1	1.25	15.8
	880	210T	TEFC	85.5	0.56	3.91	11.9	1.0175	J	5.0	1.8	1.6	2.7	1.25	18
3	3510	56H, 140T	TEFC	86.5	0.86	3.78	4.49	0.0973	K	8.8	2.5	2.2	3.2	1.25	13.3, 13.7
	3530	180T	TEFC	86.5	0.87	3.73	4.47	0.2299	K	8.9	2.4	2	3.5	1.25	15
	1760	180T	TEFC	89.5	0.80	3.92	8.96	0.4129	K	8.2	2.5	2.1	3.3	1.25	15.4
	1170	210T	TEFC	89.5	0.71	4.42	13.5	1.0175	J	6.3	1.9	1.5	2.8	1.25	18
	880	210T	TEFC	86.5	0.58	5.60	17.9	1.4001	J	5.3	1.8	1.6	2.7	1.25	19.6
5	3480	56H, 140T	TEFC	88.5	0.89	5.94	7.55	0.1211	L	10.5	2.8	2.4	3.5	1	14.9, 15.4
	3530	180T	TEFC	88.5	0.89	5.94	7.44	0.2769	L	9.6	2.4	2	3.5	1.25	15.8
	1755	180T	TEFC	89.5	0.82	6.38	14.9	0.4952	K	8.5	2.5	2.1	3.3	1.25	16.6
	1170	210T	TEFC	89.5	0.73	7.17	22.5	1.4001	J	6.5	1.9	1.5	2.8	1.25	18.8
7.5	3530	180T	TEFC	89.5	0.90	8.72	11.2	0.3208	K	9.5	2.4	2	3.5	1	16.2
	3540	210T	TEFC	89.5	0.89	8.82	11.1	0.6345	L	10.2	2.4	2	3.5	1.25	18
	1765	210T	TEFC	91.7	0.83	9.23	22.3	1.0102	L	9.8	2.7	2.3	3.5	1.25	18.8
10	3540	210T	TEFC	90.2	0.90	11.5	14.8	0.7330	L	9.9	2.4	2	3.5	1.25	18.8
	1765	210T	TEFC	91.7	0.84	12.2	29.8	1.1519	L	9.9	2.7	2.3	3.5	1.25	19.6
15	3540	210T	TEFC	91.0	0.91	16.9	22.3	0.8315	L	10.5	2.4	2	3.5	1.25	20.4

MEMA MOTOR

TXA Series NEMA Premium Efficiency 3-Phase Motors

1/4 thru 50HP Aluminum TEFC

• 56 thru 326T

FEATURES

- 208–230/460V/60Hz
- NEMA Service Factor 1.15/1.25
- Continuous Duty 40°C Ambient
- Class F Insulation With Class B Temp Rise
- NEMA Design B
- Ball Bearings
- Aluminum Housing
- IP55 Protection

APPLICATIONS

- Pumps
- Compressors
- Fans
- Conveyors
- Machine Tools
- Petro–Chemical Plants
- Three Phase or Other General Purpose Applications

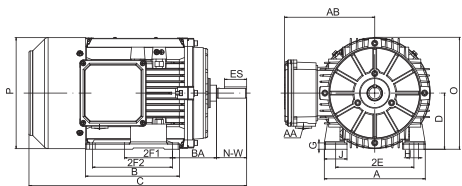
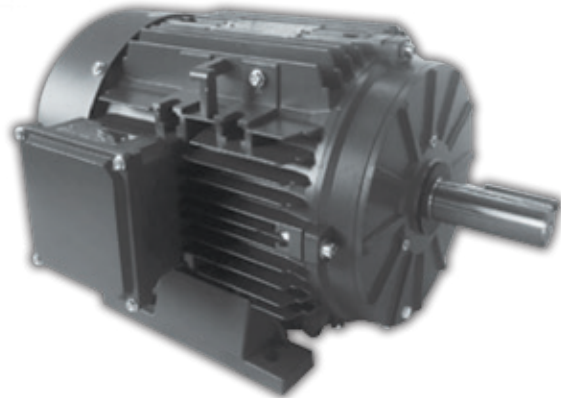


Figure 1 56 thru 320T (Foot Mounting)

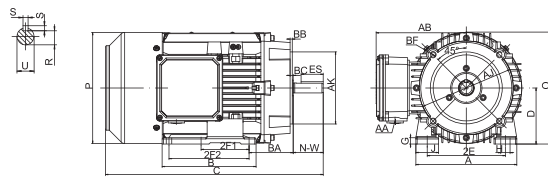


Figure 2 56 thru 140T (C- Face)

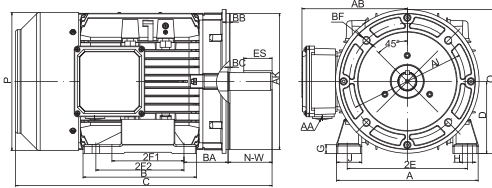


Figure 3 180T thru 320T (C- Face)

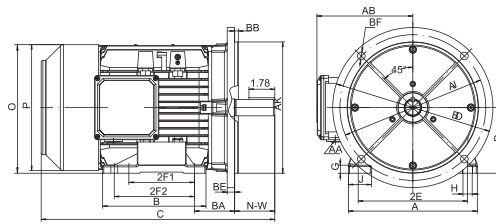


Figure 4 140T thru 320T (D- Face)

Overall & Installation Dimensions

Frame	Foot Mounting							Shaft					General					Bearings					C-Face					D-Face					
	A	B	D	2E	2F1	2F2	BA	H	U	N-W	R	ES	S	AA	G	J	AB	O	P	DE	NDE	AJ	AK	BB	BC	BF	AJ	AK	BB	BD	BE	BF	
56	6.3	3.95	3.5	4.88	3		2.75	0.73×0.335	0.625	1.875	0.517	1.375	0.1875	1/2-14NPT	0.43	1.37	5.2	6.6	6.2	6204	6204	5.875	4.5	0.16	-0.19	4×3/8-16UNC							
56H	6.3	5.9	3.5	4.88	3	5	2.75	0.58×0.335	0.625	1.875	0.517	1.375	0.1875	1/2-14NPT	0.39	1.41	5.65	7.0	6.95	6205	6205	5.875	4.5	0.16	-0.19	4×3/8-16UNC							
140T	6.9	5.86	3.5	5.5	4	5	2.25	0.50×0.35	0.875	2.25	0.771	1.375	0.1875	3/4-14NPT	0.47	1.41	5.65	7.0	6.95	6205	6205	5.875	4.5	0.16	0.12	4×3/8-16UNC	10.0	9.0	0.25	11.0	0.5	4×0.53	
180T	8.85	7.1	4.5	7.5	4.5	5.5	2.75	0.59×0.433	1.125	2.75	0.986	1.75	0.25	3/4-14NPT	0.55	1.57	6.6	8.85	8.65	6306	6206	7.25	8.5	0.25	0.12	4×1/2-13UNC	10.0	9.0	0.25	11.0	0.5	4×0.53	
210T	10.3	8.85	5.25	8.5	5.5	7	3.5	0.59×0.433	1.375	3.375	1.201	2.41	0.312	1-11 1/2NPT	0.63	1.73	7.4	10.4	10.3	6308	6208	7.25	8.5	0.25	0.25	4×1/2-13UNC	10.0	9.0	0.25	11.0	0.5	4×0.53	
254T	12.4	10.25	6.25	10.0	8.25		4.25	0.83×0.59	1.625	4.0	1.416	2.91	0.375	1 1/4-11 1/2NPT	0.74	2.36	8.5	12.5	12.4	6309	6209	7.25	8.5	0.25	0.25	4×1/2-13UNC	12.5	11.0	0.25	14.0	0.75	4×0.81	
256T	12.4	10.25	6.25	10.0	10.0		4.25	0.83×0.59	1.625	4.0	1.416	2.91	0.375	1 1/4-11 1/2NPT	0.74	2.36	8.5	12.5	12.4	6309	6209	7.25	8.5	0.25	0.25	4×1/2-13UNC	12.5	11.0	0.25	14.0	0.75	4×0.81	
280T	13.4	13.0	7.0	11.0	9.5	11.0	4.75	0.985×0.59	1.875	4.62	1.591	3.28	0.5	1 1/2-11 1/2NPT	0.71	2.36	11.2	14.1	14.0	6311	6211	9.0	10.5	0.25	0.25	4×1/2-13UNC	12.5	11.0	0.25	14.0	0.75	4×0.81	
320T	15.3	14.8	8.0	12.5	10.5	12.0	5.25	1.496×0.74	2.125	5.25	1.845	3.91	0.5	2-11 1/2NPT	0.79	3.82	11.2	14.9	14.0	6312	6212	11.0	12.5	0.25	0.25	4×5/8-11UNC	16.0	14.0	0.25	18.0	0.75	4×0.81	

The Premier NEMA Aluminum Motor



NEW EXTERIOR FEATURES 1

- Stainless Steel Fan Cover ●
- Powder Coat Paint Finish ●
- New C-Flange Design ●
- New C-Flange Weep Hole ●



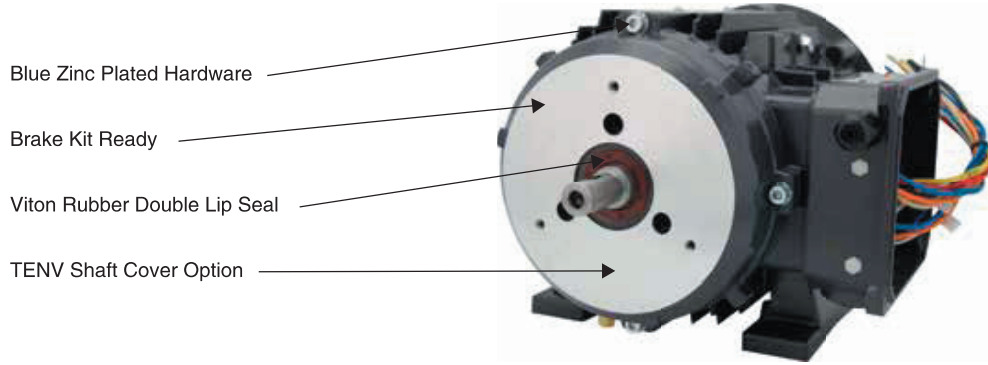
NEW EXTERIOR FEATURES 2

- New Fan Design ●
- Brake Leads Entry Port ●
- Shaft extension for Encoder ●
- Encoder mount threaded inserts ●
- Threaded Holes for Brake Rectifier ●

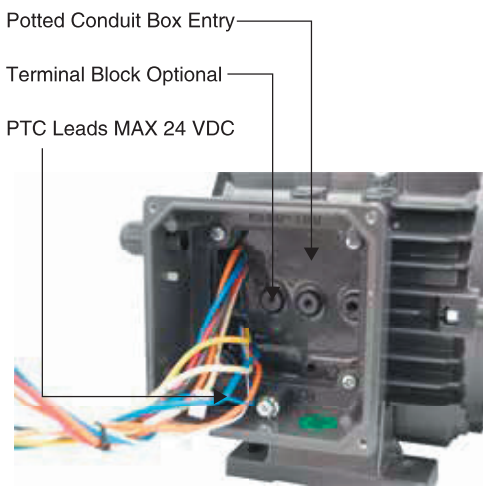


MEMA MOTOR

NEW EXTERIOR FEATURES 3



NEW INTERIOR FEATURES 1



NEW INTERIOR FEATURES 2

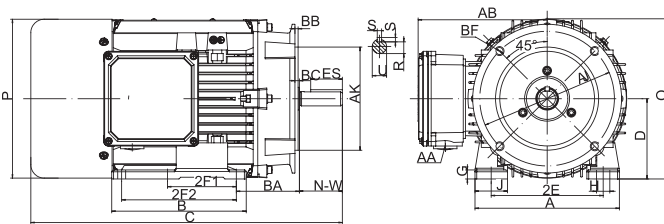
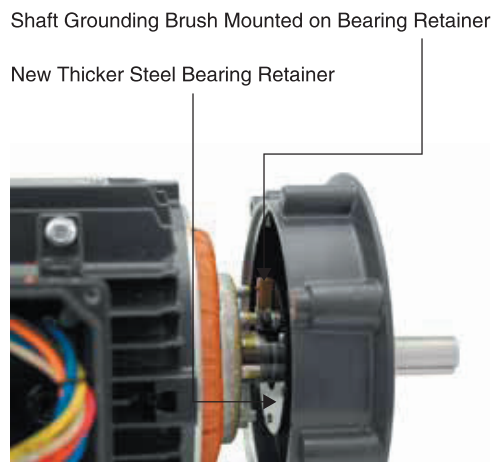


Figure 1 56, 56H, 140T

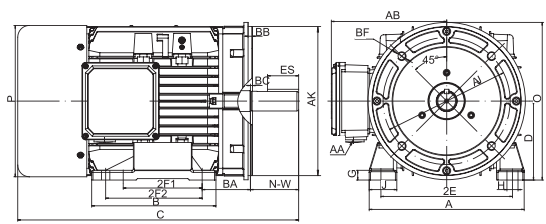


Figure 2 180T thru 250T

Overall & Installation Dimensions

Frame	Foot Mounting							Shaft					General						Bearings		C-Face						
	A	B	D	2E	2F1	2F2	BA	H	U	N-W	R	ES	S	AA	G	J	AB	O	P	C	DE	NDE	AJ	AK	BB	BC	BF
56	6.3	3.95	3.5	4.88	3		2.75	0.73×0.335	0.625	1.875	0.517	1.375	0.1875	1/2-14NPT	0.43	1.37	5.2	6.6	6.2	11.5	6204	6204	5.875	4.5	0.16	-0.19	4×3/8-16UNC
56H	6.3	5.9	3.5	4.88	3	5	2.75	0.58×0.335	0.625	1.875	0.517	1.375	0.1875	1/2-14NPT	0.39	1.41	5.65	7.0	6.95	13.6	6205	6205	5.875	4.5	0.16	-0.19	4×3/8-16UNC
140T	6.9	5.86	3.5	5.5	4	5	2.25	0.50×0.35	0.875	2.25	0.771	1.375	0.1875	3/4-14NPT	0.47	1.41	5.65	7.0	6.95	13.7	6205	6205	5.875	4.5	0.16	0.12	4×3/8-16UNC
180T	8.85	7.1	4.5	7.5	4.5	5.5	2.75	0.59×0.433	1.125	2.75	0.986	1.75	0.25	3/4-14NPT	0.55	1.57	6.6	8.85	8.65	16.1	6306	6206	7.25	8.5	0.25	0.12	4×1/2-13UNC
210T	10.3	8.85	5.25	8.5	5.5	7	3.5	0.59×0.433	1.375	3.375	1.201	2.41	0.312	1-11 1/2NPT	0.63	1.73	7.4	10.4	10.3	19.0	6308	6208	7.25	8.5	0.25	0.25	4×1/2-13UNC
254T	12.4	10.25	6.25	10.0	8.25		4.25	0.83×0.59	1.625	4.0	1.416	2.91	0.375	1 1/4-11 1/2NPT	0.74	2.36	8.5	12.5	12.4	24.0	6309	6209	7.25	8.5	0.25	0.25	4×1/2-13UNC
256T	12.4	10.25	6.25	10.0	10.0		4.25	0.83×0.59	1.625	4.0	1.416	2.91	0.375	1 1/4-11 1/2NPT	0.74	2.36	8.5	12.5	12.4	25.8	6309	6209	7.25	8.5	0.25	0.25	4×1/2-13UNC

T Three-Phase TEFC Motors Technical Data

HP	Full Load Speed, RPM	Frame Size	EFF. 100% FL	Power Factor 100% FL	IFL 460V A	Full Load Torque Lb-Ft	Moment Of Inertia Lb-Ft Squared	Locked Rotor		TST TFL	TPU TFL	TM TFL	Service Factor	Dim "C"
								KVA Code	II/In					
1/4	3520	56	66.0	69.0	0.49	0.36	0.0107	L	6.3	3	2.2	3.4	1.25	11.5
	1750	56	70.0	58.0	0.55	0.72	0.0169	K	5	2.9	2.4	3.7	1.25	11.5
	1150	56	72.0	61.0	0.51	1.10	0.0242	J	4.4	2.3	2	2.8	1.25	11.5
1/3	3520	56	72.0	70.0	0.62	0.50	0.0121	M	7.4	3.3	2.7	4.1	1.25	11.5
	1750	56	74.0	63.0	0.67	1.00	0.0188	K	5.6	3.4	2.7	3.7	1.25	11.5
	1150	56	72.0	62.0	0.69	1.53	0.0299	J	4.4	2.1	1.8	2.7	1.25	11.5
1/2	3490	56	74.0	72.0	0.87	0.75	0.0121	L	6.7	3.1	3	3.8	1.25	11.5
	1750	56	78.5	66.0	0.90	1.49	0.0228	L	6.4	3.2	2.7	3.7	1.25	11.5
	1140	56	75.5	66.0	0.93	2.29	0.0382	H	4.5	2.5	2.3	2.8	1.25	11.5
3/4	3500	56	77.0	75.0	1.20	1.11	0.0142	L	7.3	3.1	2.4	3.4	1.25	11.5
	1750	56	81.5	68.0	1.25	2.21	0.0268	L	7	3.4	2.9	3.9	1.25	11.5
	1160	56H	81.5	66.0	1.28	3.34	0.0726	J	5.8	2.5	2.3	3.3	1.25	13.6
1	3490	56	79.0	77.0	1.55	1.51	0.0161	K	7.2	3.1	2.1	3.1	1.25	11.5
	3490	56H	79.0	76.0	1.56	1.51	0.0228	K	6.9	2.8	2.2	3.3	1.25	13.6
		140T												13.7
	1745	56	85.5	69.0	1.59	3.03	0.0387	L	7.7	3.7	3.6	4.4	1.25	11.5
	1745	56H	85.5	71.0	1.55	3.03	0.0553	L	7.8	3.4	3.4	4.2	1.25	13.6
		140T												13.7
1145	56H	82.5	70.0	1.63	4.61	0.0802	H	5.3	2.2	2.1	3	1.25	13.6	
	140T												1.25	13.7
1.5	3500	56	84.0	84.0	1.95	2.21	0.0229	M	9.8	3.1	2.6	3.7	1.25	11.5
	3500	56H	84.0	80.0	2.06	2.21	0.0285	L	8.9	3.1	3.2	3.7	1.25	13.6
		140T												13.7
	1735	56	86.5	72.0	2.22	4.47	0.0427	K	7.3	3.4	3.1	3.7	1.25	11.5
	1745	56H	86.5	75.0	2.13	4.44	0.0717	L	8.2	3.5	3.2	4.1	1.25	13.6
		140T												13.7
1175	180T	87.5	68.0	2.32	6.59	0.3465	L	7.4	2.6	1.9	3.6	1.25	16.1	
													1.25	16.1
2	3500	56	85.5	84.0	2.62	3.02	0.0271	L	9.3	3.5	2.9	4.2	1.25	11.5
	3500	56H	85.5	85.0	2.59	3.02	0.0339	L	9.0	2.8	2	3.3	1.25	13.6
		140T												13.7
	1740	56H	86.5	76.0	2.86	6.07	0.0880	L	8.4	3.7	3.3	4.1	1.25	13.6
		140T												13.7
1175	180T	88.5	68.0	3.13	8.99	0.4509	L	7.5	2.6	1.8	3.6	1.25	16.1	
													1.25	16.1
3	3490	56H	86.5	88.0	3.63	4.44	0.0413	K	8.4	2.6	1.6	3.3	1.25	13.6
		140T												13.7
	3515	180T	86.5	89.0	3.59	4.41	0.0975	K	9.3	2.4	1.5	3.5	1.25	16.1
	1730	56H	89.5	75.0	4.11	8.96	0.1013	K	8.1	3.3	3.1	3.6	1.25	14
	1760	180T	89.5	81.0	3.81	8.81	0.2397	L	9.8	2.5	2.4	4.2	1.25	16.1
1175	210T	89.5	71.0	4.34	13.19	0.8804	K	7.8	2.3	1.6	3.1	1.25	19	
5	3500	56H	88.5	87.0	6.05	7.45	0.0560	L	10.0	3.5	2.8	3.8	1.25	14
	3510	180T	88.5	91.0	5.77	7.43	0.1305	L	10.6	3	2.3	4.1	1.25	16.1
	1750	180T	89.5	84.0	6.18	14.89	0.3037	L	9.5	2.8	2.4	3.8	1.25	16.1
	1170	210T	89.5	73.0	7.11	22.28	1.0868	J	6.9	2.4	1.8	2.9	1.25	19
7.5	3510	180T	89.5	90.0	8.55	11.04	0.1633	L	9.9	3.2	2.5	3.8	1.25	16.1
	3520	210T	89.5	91.0	8.48	11.01	0.3061	K	9.6	2.6	1.7	3.6	1.25	19
	1765	210T	91.7	85.0	8.86	21.95	0.7926	L	10.1	2.6	1.9	4	1.25	19
	1180	254T	91.0	72.0	10.5	32.83	2.5344	M	10.1	3.5	2	4.4	1.25	24
10	3520	210T	90.2	92.0	11.3	15.01	0.3797	L	10.1	2.7	1.5	3.9	1.25	19
	1760	210T	91.7	86.0	12.0	30.02	0.9729	L	10.3	3.1	1.7	3.8	1.25	19
	1175	256T	91.0	75.0	13.8	44.96	2.7812	L	8.4	3.1	1.7	3.7	1.25	25.8
15	3530	210T	91.0	92.0	16.5	21.95	0.4675	L	11.3	3.4	2.1	4.1	1.25	19
	3550	254T	91.0	90.0	16.8	21.83	1.1675	J	8.8	3.3	1.5	3.5	1.25	24
	1770	254T	92.4	83.0	18.0	43.78	2.2164	L	9.7	2.7	1.5	3.5	1.25	24
	1175	256T	91.7	77.0	19.6	65.94	3.8490	L	8.7	3	1.7	3.5	1.25	25.8
	1180	280T	91.7	78.0	19.3	65.67	4.6060	K	8.0	2.7	1.9	3.2	1.25	29
20	3550	256T	91.0	91.0	22.7	29.76	1.4001	K	9.5	3	1.4	3.3	1.25	25.8
	1770	256T	93.0	85.0	23.8	59.70	2.8808	K	9.2	2.6	1.3	3.1	1.25	25.8
	1180	280T	91.7	80.0	25.7	89.54	5.8257	J	7.6	2.5	1.8	2.8	1.25	29
25	3550	256T	91.7	91.0	27.8	36.71	1.6326	K	9.9	2.9	1.4	3.3	1.25	25.8
	3550	280T	91.7	91.0	27.8	36.71	1.5780	J	8.5	2.4	1.4	3	1.25	29
	1770	280T	93.6	88.0	28.2	73.62	3.6876	K	9.1	2.9	1.8	3.5	1.25	29
	1180	320T	93.0	82.0	30.4	110.40	7.5034	K	8.9	2.8	1.6	3.2	1.25	30.1
30	3550	280T	91.7	91.0	33.1	43.70	1.8059	J	8.9	2.5	1.4	3.2	1.25	29
	1770	280T	93.6	88.0	33.5	87.55	4.0578	K	9.3	2.9	2.1	3.6	1.25	29
	1180	320T	93.0	83.0	35.8	131.33	8.7231	K	8.9	2.6	1.4	2.9	1.25	30.1
40	3550	320T	92.4	92.0	44.3	59.53	2.3066	J	9.0	2.6	1.4	3.3	1.25	30.1
	1770	320T	94.1	89.0	45.0	119.39	5.3559	K	9.5	3	2.1	3.8	1.25	30.1
50	3550	320T	93.0	92.0	54.3	73.42	2.8049	K	9.9	2.9	1.5	3.5	1.25	30.1
	1770	320T	94.5	89.0	55.2	147.25	6.0037	L	10.5	3.5	1.9	3.5	1.25	30.1

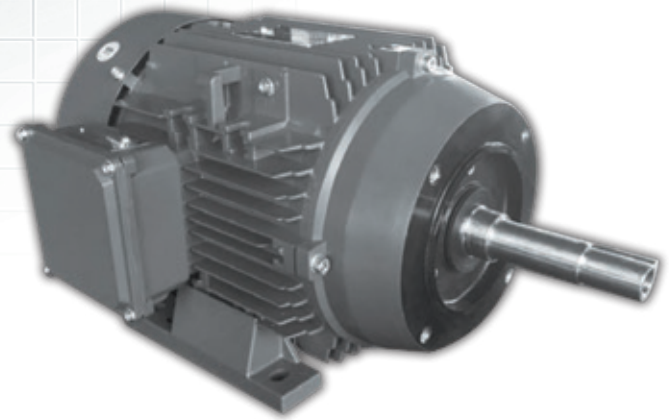
MEMA MOTOR

TXA Series NEMA 56J JM JP Pump Motors

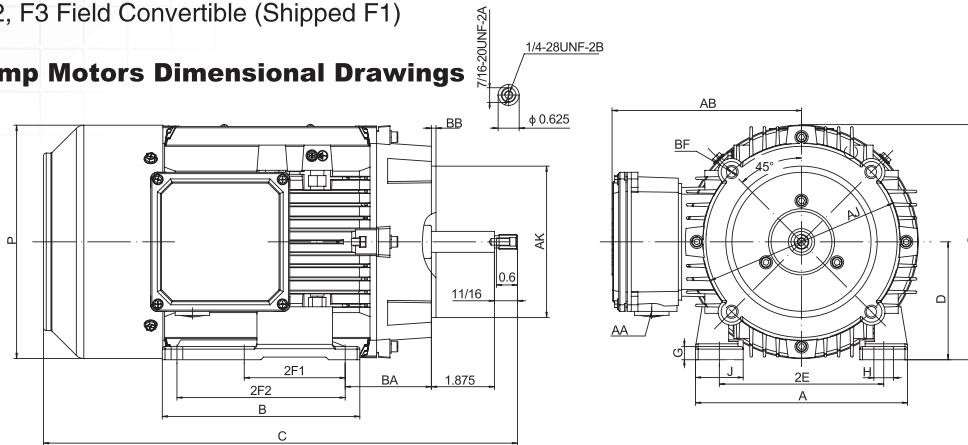
• 1/4HP thru 50HP

STANDARD FEATURES

- Aluminum housing
- IP 55 Rated
- MG1 Part 31 for VFD use
- Continuous Duty
- Dual Voltage
- 40°C Ambient Temperature Rating
- Double Lip Oil Seals
- Dual Oversized Bearings
- Multi mount Removable Feet
- Conduit Box is 90° Rotatable
- Stainless Steel Nameplate
- One-Way Brass Condensation Drains
- F1, F2, F3 Field Convertible (Shipped F1)



56J Pump Motors Dimensional Drawings



Overall & Installation Dimensions

Frame	A	B	D	2E	2F1	2F2	BA	H	AA	G	J	AB	O	P	Bearing DE	Bearing NDE	AJ	AK	BB	BF
56	6.3	3.95	3.5	4.88	3	2.56	0.73×0.335	1/2-14NPT	0.43	1.37	5.2	6.6	6.2		6204	6204	5.875	4.5	0.125	4×3/8-16UNC
56H	6.3	5.9	3.5	4.88	3	5	2.56	0.58×0.335	1/2-14NPT	0.39	1.41	5.65	7.0	6.95	6205	6205	5.875	4.5	0.125	4×3/8-16UNC

56J Pump Motors Technical Data

HP	Full Load Speed RPM	Frame Size	EFF. 100% FL	Power Factor 100% FL	IFL 460V A	Full Load Torque Lb-Ft	Moment Of Inertia Lb-Ft Squared	Locked Rotor KVA Code	II/in	TST TFL	TPU TFL	TM TFL	Service Factor	Dim °C
1/4	3520	56	66.0	69.0	0.49	0.36	0.0107	L	6.3	3	2.2	3.4	1.25	12
	1750	56	70.0	58.0	0.55	0.72	0.0169	K	5	2.9	2.4	3.7	1.25	12
	1150	56	72.0	61.0	0.51	1.10	0.0242	J	4.4	2.3	2	2.8	1.25	12
1/3	3520	56	72.0	70.0	0.62	0.50	0.0121	M	7.4	3.3	2.7	4.1	1.25	12
	1750	56	74.0	63.0	0.67	1.00	0.0188	K	5.6	3.4	2.7	3.7	1.25	12
	1150	56	72.0	62.0	0.69	1.53	0.0299	J	4.4	2.1	1.8	2.7	1.25	12
1/2	3490	56	74.0	72.0	0.87	0.75	0.0121	L	6.7	3.1	3	3.8	1.25	12
	1750	56	78.5	66.0	0.90	1.49	0.0228	L	6.4	3.2	2.7	3.7	1.25	12
	1140	56	75.5	66.0	0.93	2.29	0.0382	H	4.5	2.5	2.3	2.8	1.25	12
3/4	3500	56	77.0	75.0	1.20	1.11	0.0142	L	7.3	3.1	2.4	3.4	1.25	12
	1750	56	81.5	68.0	1.25	2.21	0.0268	L	7	3.4	2.9	3.9	1.25	12
	1160	56H	81.5	66.0	1.28	3.34	0.0726	J	5.8	2.5	2.3	3.3	1.25	14.1
1	3490	56	79.0	77.0	1.55	1.51	0.0161	K	7.2	3.1	2.1	3.1	1.25	12
	3490	56H	79.0	76.0	1.56	1.51	0.0228	K	6.9	2.8	2.2	3.3	1.25	14.1
	1745	56	85.5	69.0	1.59	3.03	0.0387	L	7.7	3.7	3.6	4.4	1.25	12
	1745	56H	85.5	71.0	1.55	3.03	0.0553	L	7.8	3.4	3.4	4.2	1.25	14.1
	1145	56H	82.5	70.0	1.63	4.61	0.0802	H	5.3	2.2	2.1	3	1.25	14.1
1.5	3500	56	84.0	84.0	1.95	2.21	0.0229	M	9.8	3.1	2.6	3.7	1.25	12
	3500	56H	84.0	80.0	2.06	2.21	0.0285	L	8.9	3.1	3.2	3.7	1.25	14.1
	1735	56	86.5	72.0	2.22	4.47	0.0427	K	7.3	3.4	3.1	3.7	1.25	12
	1745	56H	86.5	75.0	2.13	4.44	0.0717	L	8.2	3.5	3.2	4.1	1.25	14.1
2	3500	56	85.5	84.0	2.62	3.02	0.0271	L	9.3	3.5	2.9	4.2	1.25	12
	3500	56H	85.5	85.0	2.59	3.02	0.0339	L	9.0	2.8	2	3.3	1.25	14.1
	1740	56H	86.5	76.0	2.86	6.07	0.0880	L	8.4	3.7	3.3	4.1	1.25	14.1
3	3490	56H	86.5	88.0	3.63	4.44	0.0413	K	8.4	2.6	1.6	3.3	1.25	14.1
	1730	56H	89.5	75.0	4.11	8.96	0.1013	K	8.1	3.3	3.1	3.6	1.25	15.3
5	3500	56H	88.5	87.0	6.05	7.45	0.0560	L	10.0	3.5	2.8	3.8	1.25	15.3

MEMA MOTOR

JM Pump Motors Dimensional Drawings

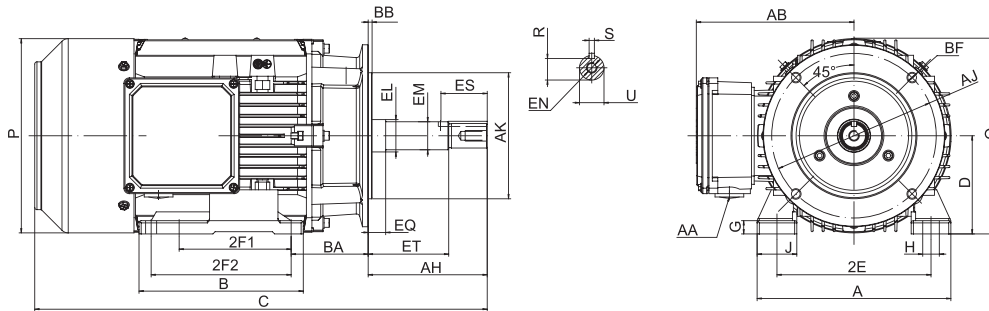


Figure 1 140T、180T

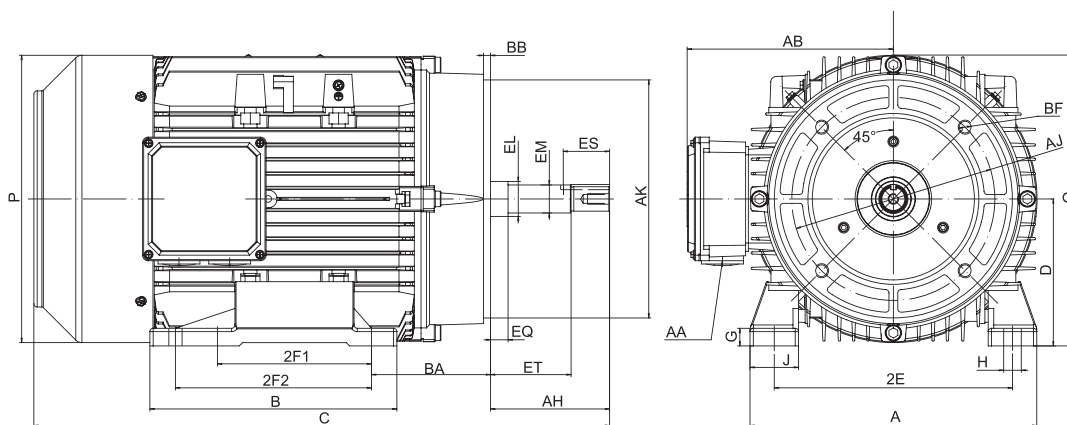


Figure 2 210T thru 320T

Overall & Installation Dimensions

Frame	A	B	D	2E	2F1	2F2	BA	H	AA	G	J	AB	O	P	Bearing DE	Bearing NDE	U	AH	AJ	AK	BB	BF	EL	EM	EN	EQ	R	ES	S	ET
140T	6.9	5.86	3.5	5.5	4	5	2.75	0.50×0.35	3/4-14NPT	0.47	1.41	5.65	7.0	6.95	6206	6205	0.8745	4.25	5.875	4.5	0.125	4×3/8-16UNC	1.156	1.0	3/8-16UNC	0.625	0.771	1.65	0.1875×0.1875×1.375	2.875
180T	8.85	7.1	4.5	7.5	4.5	5.5	3.5	0.59×0.433	3/4-14NPT	0.55	1.57	6.6	8.85	8.65	6207	6206	0.8745	4.25	5.875	4.5	0.125	4×3/8-16UNC	1.25	1.0	3/8-16UNC	0.625	0.771	1.65	0.1875×0.1875×1.375	2.875
210T	10.3	8.85	5.25	8.5	5.5	7	4.25	0.59×0.433	1-11/2NPT	0.63	1.73	7.4	10.4	10.3	6308	6208	0.8745	4.25	7.25	8.5	0.25	4×1/2-13UNC	1.25	1.0	3/8-16UNC	0.625	0.771	1.65	0.1875×0.1875×1.375	2.875
254T	12.4	10.25	6.25	10.0	8.25		4.75	0.83×0.59	1 1/4-1/2NPT	0.74	2.36	8.5	12.5	12.4	6309	6209	1.2495	5.25	7.25	8.5	0.25	4×1/2-13UNC	1.75	1.375	1/2-13UNC	0.625	1.112	2.53	0.25×0.25×2.41	3.0
256T	12.4	10.25	6.25	10.0	10.0		4.75	0.83×0.59	1 1/4-1/2NPT	0.74	2.36	8.5	12.5	12.4	6309	6209	1.2495	5.25	7.25	8.5	0.25	4×1/2-13UNC	1.75	1.375	1/2-13UNC	0.625	1.112	2.53	0.25×0.25×2.41	3.0
280T	13.4	13.0	7.0	11.0	9.5	11.0	4.75	0.985×0.59	1 1/2-11/2NPT	0.71	2.36	11.2	14.1	14.0	6311	6211	1.2495	5.25	11.0	12.5	0.25	4×5/8-11UNC	1.75	1.375	1/2-13UNC	0.625	1.112	2.53	0.25×0.25×2.41	3.0
320T	15.3	14.8	8.0	12.5	10.5	12.0	5.25	1.496×0.74	2-11/2NPT	0.79	3.82	11.2	14.9	14.0	6312	6212	1.2495	5.25	11.0	12.5	0.25	4×5/8-11UNC	1.75	1.375	1/2-13UNC	0.625	1.112	2.53	0.25×0.25×2.41	3.0

MEMA MOTOR

JP Pump Motors Dimensional Drawings

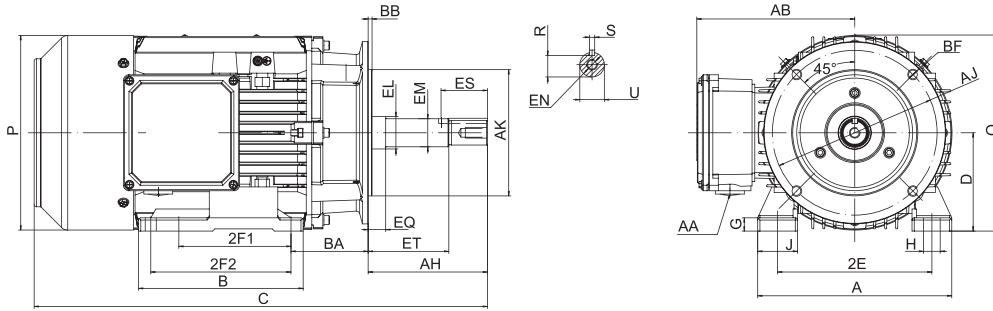


Figure 1 140T, 180T

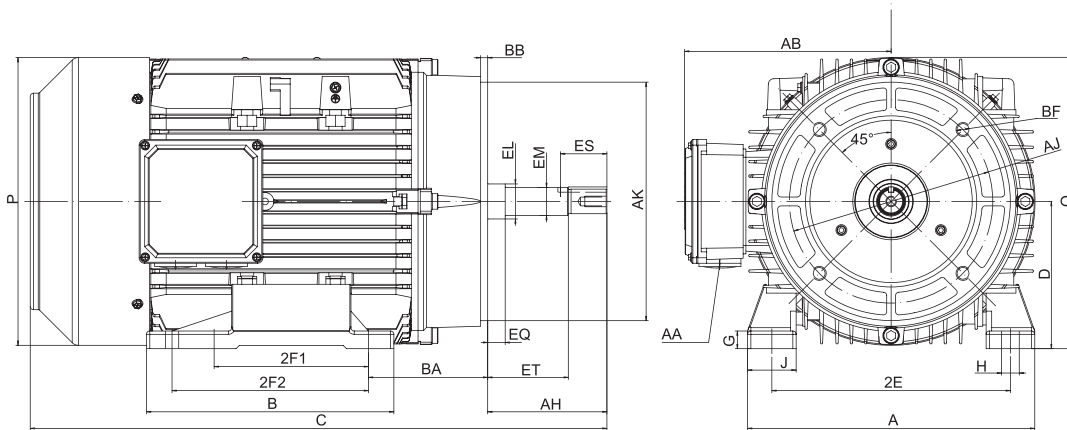


Figure 2 210T thru 320T

Overall & Installation Dimensions

MEMA MOTOR

Frame	A	B	D	2E	2F1	2F2	BA	H	AA	G	J	AB	O	P	Bearing DE	Bearing NDE	U	AH	AJ	AK	BB	BF	EL	EM	EN	EQ	R	ES	S	ET
140T	6.9	5.86	3.5	5.5	4	5	2.75	0.50×0.35	3/4-14NPT	0.47	1.41	5.65	7.0	6.95	6206	6205	0.8745	7.312	5.875	4.5	0.125	4×3/8-16UNC	1.156	1.0	3/8-16UNC	1.563	0.771	1.65	0.1875×0.1875×1.375	5.937
180T	8.85	7.1	4.5	7.5	4.5	5.5	3.5	0.59×0.433	3/4-14NPT	0.55	1.57	6.6	8.85	8.65	6207	6206	0.8745	7.312	5.875	4.5	0.125	4×3/8-16UNC	1.25	1.0	3/8-16UNC	1.563	0.771	1.65	0.1875×0.1875×1.375	5.937
210T	10.3	8.85	5.25	8.5	5.5	7	4.25	0.59×0.433	1-11/2NPT	0.63	1.73	7.4	10.4	10.3	6210	6208	1.2495	8.125	7.25	8.5	0.25	4×1/2-13UNC	1.75	1.375	1/2-16UNC	2.375	1.112	2.53	0.25×0.25×2.41	5.875
254T	12.4	10.25	6.25	10.0	8.25		4.75	0.83×0.59	1 1/4-11/2NPT	0.74	2.36	8.5	12.5	12.4	6309	6209	1.2495	8.125	7.25	8.5	0.25	4×1/2-13UNC	1.75	1.375	1/2-13UNC	2.375	1.112	2.53	0.25×0.25×2.41	5.875
256T	12.4	10.25	6.25	10.0	10.0		4.75	0.83×0.59	1 1/4-11/2NPT	0.74	2.36	8.5	12.5	12.4	6309	6209	1.2495	8.125	7.25	8.5	0.25	4×1/2-13UNC	1.75	1.375	1/2-13UNC	2.375	1.112	2.53	0.25×0.25×2.41	5.875
280T	13.4	13.0	7.0	11.0	9.5	11.0	4.75	0.985×0.59	1 1/2-11/2NPT	0.71	2.36	11.2	14.1	14.0	6311	6211	1.2495	8.125	11.0	12.5	0.25	4×5/8-11UNC	1.75	1.375	1/2-13UNC	2.375	1.112	2.53	0.25×0.25×2.41	5.875
320T	15.3	14.8	8.0	12.5	10.5	12.0	5.25	1.496×0.74	2-11/2NPT	0.79	3.82	11.2	14.9	14.0	6312	6212	1.2495	8.125	11.0	12.5	0.25	4×5/8-11UNC	1.75	1.375	1/2-13UNC	2.375	1.112	2.53	0.25×0.25×2.41	5.875

JM JP Pump Motors Technical Data

HP	Full Load Speed, RPM	Frame Size	EFF. 100% FL	Power Factor 100% FL	IFL 460V A	Full Load Torque Lb-Ft	Moment Of Inertia Lb-Ft Squared	Locked Rotor		TST TFL	TPU TFL	TM TFL	Service Factor	Dim "C" For JM	Dim "C" For JP
								KVA Code	II/In						
1	3490	140T	79.0	76.0	1.56	1.51	0.0228	K	6.9	2.8	2.2	3.3	1.25	16.2	19.3
	1745	140T	85.5	71.0	1.55	3.03	0.0553	L	7.8	3.4	3.4	4.2	1.25	16.2	19.3
	1145	140T	82.5	70.0	1.63	4.61	0.0802	H	5.3	2.2	2.1	3	1.25	16.2	19.3
1.5	3500	140T	84.0	80.0	2.06	2.21	0.0285	L	8.9	3.1	3.2	3.7	1.25	16.2	19.3
	1745	140T	86.5	75.0	2.13	4.44	0.0717	L	8.2	3.5	3.2	4.1	1.25	16.2	19.3
	1175	180T	87.5	68.0	2.32	6.59	0.3465	L	7.4	2.6	1.9	3.6	1.25	18.3	21.4
2	3500	140T	85.5	85.0	2.59	3.02	0.0339	L	9.0	2.8	2	3.3	1.25	16.2	19.3
	1740	140T	86.5	76.0	2.86	6.07	0.0880	L	8.4	3.7	3.3	4.1	1.25	16.2	19.3
	1175	180T	88.5	68.0	3.13	8.99	0.4509	L	7.5	2.6	1.8	3.6	1.25	18.3	21.4
3	3490	140T	86.5	88.0	3.63	4.44	0.0413	K	8.4	2.6	1.6	3.3	1.25	16.2	19.3
	3515	180T	86.5	89.0	3.59	4.41	0.0975	K	9.3	2.4	1.5	3.5	1.25	18.3	21.4
	1760	180T	89.5	81.0	3.81	8.81	0.2397	L	9.8	2.5	2.4	4.2	1.25	18.3	21.4
	1175	210T	89.5	71.0	4.34	13.19	0.8804	K	7.8	2.3	1.6	3.1	1.25	20.6	24.5
5	3510	180T	88.5	91.0	5.77	7.43	0.1305	L	10.6	3	2.3	4.1	1.25	18.3	21.4
	1750	180T	89.5	84.0	6.18	14.89	0.3037	L	9.5	2.8	2.4	3.8	1.25	18.3	21.4
	1170	210T	89.5	73.0	7.11	22.28	1.0868	J	6.9	2.4	1.8	2.9	1.25	20.6	24.5
7.5	3510	180T	89.5	90.0	8.55	11.04	0.1633	L	9.9	3.2	2.5	3.8	1.25	18.3	21.4
	3520	210T	89.5	91.0	8.48	11.01	0.3061	K	9.6	2.6	1.7	3.6	1.25	20.6	24.5
	1765	210T	91.7	85.0	8.86	21.95	0.7926	L	10.1	2.6	1.9	4	1.25	20.6	24.5
	1180	254T	91.0	72.0	10.5	32.83	2.5344	M	10.1	3.5	2	4.4	1.25	25.8	28.7
10	3520	210T	90.2	92.0	11.3	15.01	0.3797	L	10.1	2.7	1.5	3.9	1.25	20.6	24.5
	1760	210T	91.7	86.0	12.0	30.02	0.9729	L	10.3	3.1	1.7	3.8	1.25	20.6	24.5
	1175	256T	91.0	75.0	13.8	44.96	2.7812	L	8.4	3.1	1.7	3.7	1.25	27.6	30.5
15	3530	210T	91.0	92.0	16.5	21.95	0.4675	L	11.3	3.4	2.1	4.1	1.25	20.6	24.5
	3550	254T	91.0	90.0	16.8	21.83	1.1675	J	8.8	3.3	1.5	3.5	1.25	25.8	28.7
	1770	254T	92.4	83.0	18.0	43.78	2.2164	L	9.7	2.7	1.5	3.5	1.25	25.8	28.7
	1175	256T	91.7	77.0	19.6	65.94	3.8490	L	8.7	3	1.7	3.5	1.25	27.6	30.5
	1180	280T	91.7	78.0	19.3	65.67	4.6060	K	8.0	2.7	1.9	3.2	1.25	29.7	32.6
20	3550	256T	91.0	91.0	22.7	29.76	1.4001	K	9.5	3	1.4	3.3	1.25	27.6	30.5
	1770	256T	93.0	85.0	23.8	59.70	2.8808	K	9.2	2.6	1.3	3.1	1.25	27.6	30.5
	1180	280T	91.7	80.0	25.7	89.54	5.8257	J	7.6	2.5	1.8	2.8	1.25	29.7	32.6
25	3550	256T	91.7	91.0	27.8	36.71	1.6326	K	9.9	2.9	1.4	3.3	1.25	27.6	30.5
	3550	280T	91.7	91.0	27.8	36.71	1.5780	J	8.5	2.4	1.4	3	1.25	29.7	32.6
	1770	280T	93.6	88.0	28.2	73.62	3.6876	K	9.1	2.9	1.8	3.5	1.25	29.7	32.6
	1180	320T	93.0	82.0	30.4	110.40	7.5034	K	8.9	2.8	1.6	3.2	1.25	30.1	33
30	3550	280T	91.7	91.0	33.1	43.70	1.8059	J	8.9	2.5	1.4	3.2	1.25	29.7	32.6
	1770	280T	93.6	88.0	33.5	87.55	4.0578	K	9.3	2.9	2.1	3.6	1.25	29.7	32.6
	1180	320T	93.0	83.0	35.8	131.33	8.7231	K	8.9	2.6	1.4	2.9	1.25	30.1	33
40	3550	320T	92.4	92.0	44.3	59.53	2.3066	J	9.0	2.6	1.4	3.3	1.25	30.1	33
	1770	320T	94.1	89.0	45.0	119.39	5.3559	K	9.5	3	2.1	3.8	1.25	30.1	33
50	3550	320T	93.0	92.0	54.3	73.42	2.8049	K	9.9	2.9	1.5	3.5	1.25	30.1	33
	1770	320T	94.5	89.0	55.2	147.25	6.0037	L	10.5	3.5	1.9	3.5	1.25	30.1	33

TXAB Series NEMA Three-Phase Brake Motors Aluminum TEFC

- 1/4HP thru 25HP
- 56 thru 256T

STANDARD FEATURES

- 40°C Ambient Rating
- Aluminum Housing
- Ball bearings
- IP 55 Rated
- Removable Feet
- Corrosion Resistant Hardware
- Double Lip Oil Seals

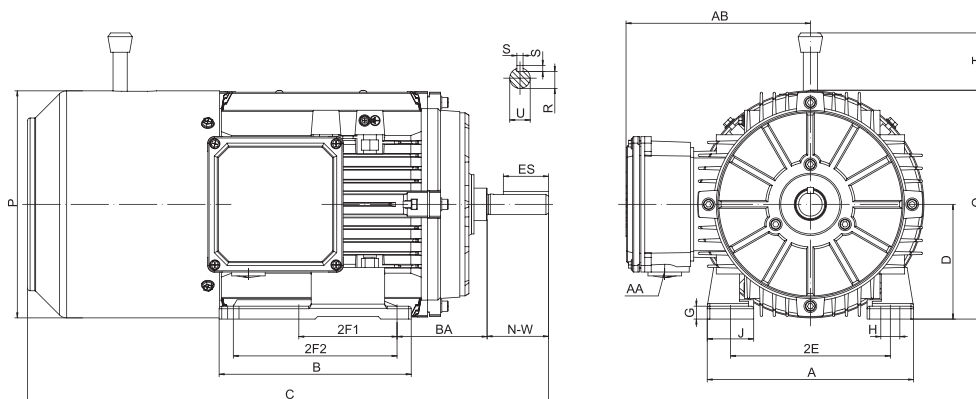


Standard Configuration Brake Data

Frame size	Brake type	Brake torque (Speed 100r/min) (Nm)	Brake rated power(20°C) (W)	Delay time when power on (ms)	Brake time (ms)	Pick in time when power off (ms)
56	08	8	25	15	32	50
56H, 140	10	16	30	25	45	69
180	14	60	50	27	57	190
210	16	80	55	30	60	200
250	18	150	85	35	78	260

INTORQ brake data

Frame size	Brake type	Brake torque (Speed 100r/min) (Nm)	Brake rated power(20°C) (W)	Delay time when power on (ms)	Brake time (ms)	Pick in time when power off (ms)
56	08	8	25	15	31	60
56H, 140	10	16	30	31	50	65
180	14	60	50	26	51	205
210	16	80	55	40	70	258



Overall & Installation Dimensions

Frame	A	B	D	2E	2F1	2F2	BA	H	U	N-W	R	ES	S	AA	G	J	AB	O	T	P	Bearing DE	Bearing NDE
56	6.3	3.95	3.5	4.88	3	5	2.75	0.73×0.335	0.625	1.875	0.517	1.375	0.1875	1/2-14NPT	0.43	1.37	5.2	6.6	1.5	6.2	6204	6204
56H	6.3	5.9	3.5	4.88	3	5	2.75	0.58×0.335	0.625	1.875	0.517	1.375	0.1875	1/2-14NPT	0.39	1.41	5.65	7.0	1.75	6.95	6205	6205
140T	6.9	5.86	3.5	5.5	4	5	2.25	0.50×0.35	0.875	2.25	0.771	1.375	0.1875	3/4-14NPT	0.47	1.41	5.65	7.0	1.75	6.95	6205	6205
180T	8.85	7.1	4.5	7.5	4.5	5.5	2.75	0.59×0.433	1.125	2.75	0.986	1.75	0.25	3/4-14NPT	0.55	1.57	6.6	8.85	3.45	8.65	6306	6206
210T	10.3	8.85	5.25	8.5	5.5	7	3.5	0.59×0.433	1.375	3.375	1.201	2.41	0.312	1-11 1/2NPT	0.63	1.73	7.4	10.4	4.4	10.3	6308	6208
254T	12.4	10.25	6.25	10.0	8.25	10	4.25	0.83×0.59	1.625	4.0	1.416	2.91	0.375	1 1/4-11 1/2NPT	0.74	2.36	8.5	12.5	4.85	12.4	6309	6209
256T	12.4	10.25	6.25	10.0	10.0	10	4.25	0.83×0.59	1.625	4.0	1.416	2.91	0.375	1 1/4-11 1/2NPT	0.74	2.36	8.5	12.5	4.85	12.4	6309	6209

T Three-Phase TEFC Brake Motors Technical Data

HP	Full Load Speed, RPM	Frame Size	EFF. 100% FL	Power Factor 100% FL	IFL 460V A	Full Load Torque Lb-Ft	Moment Of Inertia Lb-Ft Squared	Locked Rotor		TST TFL	TPU TFL	TM TFL	Service Factor	Dim "C"
								KVA Code	II/In					
1/4	3520	56	66.0	69.0	0.49	0.36	0.0107	L	6.3	3	2.2	3.4	1.25	14.15
	1750	56	70.0	58.0	0.55	0.72	0.0169	K	5	2.9	2.4	3.7	1.25	14.15
	1150	56	72.0	61.0	0.51	1.10	0.0242	J	4.4	2.3	2	2.8	1.25	14.15
1/3	3520	56	72.0	70.0	0.62	0.50	0.0121	M	7.4	3.3	2.7	4.1	1.25	14.15
	1750	56	74.0	63.0	0.67	1.00	0.0188	K	5.6	3.4	2.7	3.7	1.25	14.15
	1150	56	72.0	62.0	0.69	1.53	0.0299	J	4.4	2.1	1.8	2.7	1.25	14.15
1/2	3490	56	74.0	72.0	0.87	0.75	0.0121	L	6.7	3.1	3	3.8	1.25	14.15
	1750	56	78.5	66.0	0.90	1.49	0.0228	L	6.4	3.2	2.7	3.7	1.25	14.15
	1140	56	75.5	66.0	0.93	2.29	0.0382	H	4.5	2.5	2.3	2.8	1.25	14.15
3/4	3500	56	77.0	75.0	1.20	1.11	0.0142	L	7.3	3.1	2.4	3.4	1.25	14.15
	1750	56	81.5	68.0	1.25	2.21	0.0268	L	7	3.4	2.9	3.9	1.25	14.15
	1160	56H	81.5	66.0	1.28	3.34	0.0726	J	5.8	2.5	2.3	3.3	1.25	15.95
1	3490	56	79.0	77.0	1.55	1.51	0.0161	K	7.2	3.1	2.1	3.1	1.25	14.15
	3490	56H 140T	79.0	76.0	1.56	1.51	0.0228	K	6.9	2.8	2.2	3.3	1.25	15.95 16.00
	1745	56	85.5	69.0	1.59	3.03	0.0387	L	7.7	3.7	3.6	4.4	1.25	14.15
	1745	56H 140T	85.5	71.0	1.55	3.03	0.0553	L	7.8	3.4	3.4	4.2	1.25	15.95 16.00
	1145	56H 140T	82.5	70.0	1.63	4.61	0.0802	H	5.3	2.2	2.1	3	1.25	15.95 16.00
	3500	56	84.0	84.0	1.95	2.21	0.0229	M	9.8	3.1	2.6	3.7	1.25	14.15
1.5	3500	56H 140T	84.0	80.0	2.06	2.21	0.0285	L	8.9	3.1	3.2	3.7	1.25	15.95 16.00
	1735	56	86.5	72.0	2.22	4.47	0.0427	K	7.3	3.4	3.1	3.7	1.25	14.15
	1745	56H 140T	86.5	75.0	2.13	4.44	0.0717	L	8.2	3.5	3.2	4.1	1.25	15.95 16.00
	1175	180T	87.5	68.0	2.32	6.59	0.3465	L	7.4	2.6	1.9	3.6	1.25	18.90
	3500	56	85.5	84.0	2.62	3.02	0.0271	L	9.3	3.5	2.9	4.2	1.25	14.15
2	3500	56H 140T	85.5	85.0	2.59	3.02	0.0339	L	9.0	2.8	2	3.3	1.25	15.95 16.00
	1740	56H 140T	86.5	76.0	2.86	6.07	0.0880	L	8.4	3.7	3.3	4.1	1.25	15.95 16.00
	1175	180T	88.5	68.0	3.13	8.99	0.4509	L	7.5	2.6	1.8	3.6	1.25	18.90
	3490	56H 140T	86.5	88.0	3.63	4.44	0.0413	K	8.4	2.6	1.6	3.3	1.25	15.95 16.00
3	3515	180T	86.5	89.0	3.59	4.41	0.0975	K	9.3	2.4	1.5	3.5	1.25	18.90
	1730	56H	89.5	75.0	4.11	8.96	0.1013	K	8.1	3.3	3.1	3.6	1.25	17.15
	1760	180T	89.5	81.0	3.81	8.81	0.2397	L	9.8	2.5	2.4	4.2	1.25	18.90
	1175	210T	89.5	71.0	4.34	13.19	0.8804	K	7.8	2.3	1.6	3.1	1.25	22.90
	3500	56H	88.5	87.0	6.05	7.45	0.0560	L	10.0	3.5	2.8	3.8	1.25	17.15
5	3510	180T	88.5	91.0	5.77	7.43	0.1305	L	10.6	3	2.3	4.1	1.25	18.90
	1750	180T	89.5	84.0	6.18	14.89	0.3037	L	9.5	2.8	2.4	3.8	1.25	18.90
	1170	210T	89.5	73.0	7.11	22.28	1.0868	J	6.9	2.4	1.8	2.9	1.25	22.90
	3510	180T	89.5	90.0	8.55	11.04	0.1633	L	9.9	3.2	2.5	3.8	1.25	18.90
7.5	3520	210T	89.5	91.0	8.48	11.01	0.3061	K	9.6	2.6	1.7	3.6	1.25	22.90
	1765	210T	91.7	85.0	8.86	21.95	0.7926	L	10.1	2.6	1.9	4	1.25	22.90
	1180	254T	91.0	72.0	10.5	32.83	2.5344	M	10.1	3.5	2	4.4	1.25	26.70
10	3520	210T	90.2	92.0	11.3	15.01	0.3797	L	10.1	2.7	1.5	3.9	1.25	22.90
	1760	210T	91.7	86.0	12.0	30.02	0.9729	L	10.3	3.1	1.7	3.8	1.25	22.90
	1175	256T	91.0	75.0	13.8	44.96	2.7812	L	8.4	3.1	1.7	3.7	1.25	28.40
15	3530	210T	91.0	92.0	16.5	21.95	0.4675	L	11.3	3.4	2.1	4.1	1.25	22.90
	3550	254T	91.0	90.0	16.8	21.83	1.1675	J	8.8	3.3	1.5	3.5	1.25	26.70
	1770	254T	92.4	83.0	18.0	43.78	2.2164	L	9.7	2.7	1.5	3.5	1.25	26.70
	1175	256T	91.7	77.0	19.6	65.94	3.8490	L	8.7	3	1.7	3.5	1.25	28.40
20	3550	256T	91.0	91.0	22.7	29.76	1.4001	K	9.5	3	1.4	3.3	1.25	28.40
	1770	256T	93.0	85.0	23.8	59.70	2.8808	K	9.2	2.6	1.3	3.1	1.25	28.40
25	3550	256T	91.7	91.0	27.8	36.71	1.6326	K	9.9	2.9	1.4	3.3	1.25	28.40

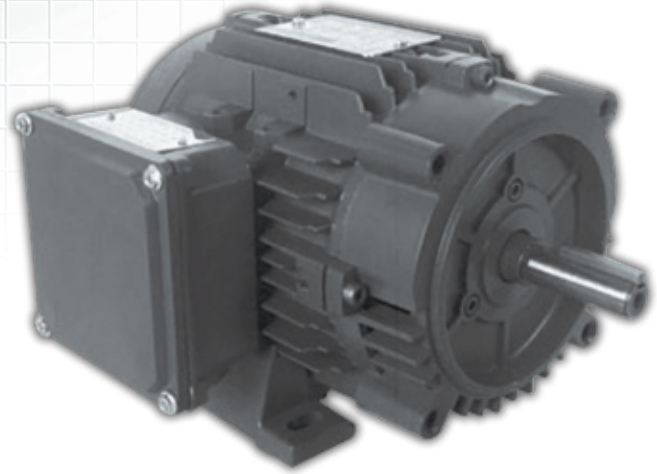
MEMA MOTOR

TDA Series NEMA Premium Efficiency Three-Phase Motors Aluminum ODP

- 1/4HP thru 60HP
- 56 thru 320T

STANDARD FEATURES

- Continuous Duty 40°C Ambient
- Aluminum Housing
- Ball bearings
- IP23 Protection



APPLICATIONS

- Pumps
- Compressors
- Fans
- Machine Tools
- Other General Purpose Three Phase Applications

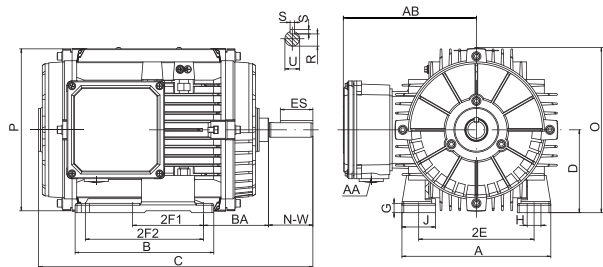


Figure 1 56 thru 320T (Foot Mounting)

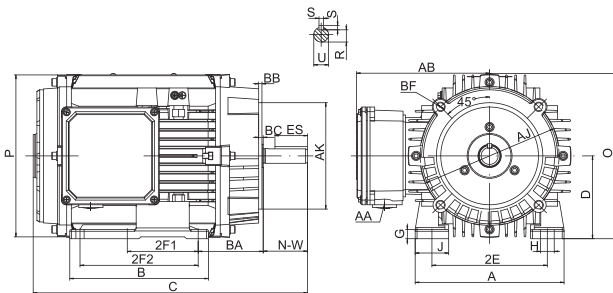


Figure 2 56 thru 140T (C- Face)

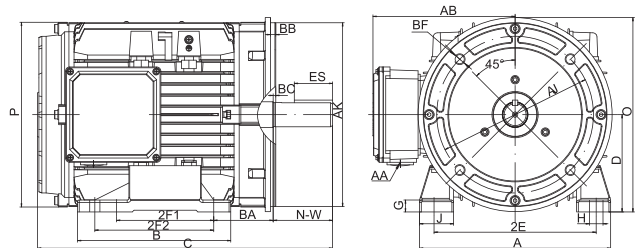


Figure 3 180T thru 320T (C- Face)

Overall & Installation Dimensions

Frame	Foot Mounting							Shaft					General					Bearings		C-Face							
	A	B	D	2E	2F1	2F2	BA	H	U	N-W	R	ES	S	AA	G	J	AB	O	P	DE	NDE	AJ	AK	BB	BC	BF	
56	6.3	3.95	3.5	4.88	3	2.75	0.73 × 0.335	0.625	1.875	0.517	1.375	0.1875	1/2-14NPT	0.43	1.37	5.2	6.6	6.2	6204	6203	5.875	4.5	0.16	-0.19	4 × 3/8-16UNC		
56H	6.3	5.9	3.5	4.88	3	2.75	0.58 × 0.335	0.625	1.875	0.517	1.375	0.1875	1/2-14NPT	0.39	1.41	5.65	7	6.95	6205	6204	5.875	4.5	0.16	-0.19	4 × 3/8-16UNC		
140T	6.9	5.86	3.5	5.5	4	5	2.25	0.50 × 0.35	0.875	2.25	0.771	1.375	3/4-14NPT	0.47	1.41	5.65	7	6.95	6205	6204	5.875	4.5	0.16	0.12	4 × 3/8-16UNC		
180T	8.85	7.1	4.5	7.5	4.5	5.5	2.75	0.59 × 0.433	1.125	2.75	0.986	1.75	0.25	3/4-14NPT	0.55	1.57	6.6	8.85	8.65	6306	6206	7.25	8.5	0.25	0.12	4 × 1/2-13UNC	
210T	10.3	8.85	5.25	8.5	5.5	7	3.5	0.59 × 0.433	1.375	3.375	1.201	2.41	0.312	1-11 1/2NPT	0.63	1.73	7.4	10.4	10.3	6308	6208	7.25	8.5	0.25	0.25	4 × 1/2-13UNC	
250T	12.4	10.25	6.25	10	8.25	10	4.25	0.83 × 0.59	1.625	4	1.416	2.91	0.375	1 1/4-11 1/2NPT	0.74	2.36	8.5	12.5	12.3	6309C3	6309C3	7.25	8.5	0.25	0.25	4 × 1/2-13UNC	
280TS	13.4	13	7	11	9.5	11	4.75	0.985 × 0.59	1.625	3.25	1.416	1.91	0.375	1 1/2-11 1/2NPT	0.71	2.36	11.2	14.1	13.98	6311C3	6311C3	9	10.5	0.25	0.25	4 × 1/2-13UNC	
280T	13.4	13	7	11	9.5	11	4.75	0.985 × 0.59	1.875	4.62	1.591	3.28	0.5	1 1/2-11 1/2NPT	0.71	2.36	11.2	14.1	13.98	6311C3	6311C3	9	10.5	0.25	0.25	4 × 1/2-13UNC	
320TS	15.3	14.8	8	12.5	10.5	12	5.25	1.496 × 0.74	1.875	3.75	1.591	2.03	0.5	2-11 1/2NPT	0.79	3.82	11.2	14.9	13.98	6312C3	6312C3	11	12.5	0.25	0.25	4 × 5/8-11UNC	
320T	15.3	14.8	8	12.5	10.5	12	5.25	1.496 × 0.74	2.125	5.25	1.845	3.91	0.5	2-11 1/2NPT	0.79	3.82	11.2	14.9	13.98	6312C3	6312C3	11	12.5	0.25	0.25	4 × 5/8-11UNC	

DP Three-Phase Motors Technical Data

HP	FULL LOAD SPEED rpm	FRAME	EFF. 100% FL	POWER FACTOR	IFL 460V A	FULL LOAD TORQUE lb-ft	MOMENT OF INERTIA lb-ft squared	LOCKED ROTOR		TST TFL	TPU TFL	TM TFL	SERVICE FACTOR	C
								KVA CODE	ll/in					
1/4	3530	56	65.6	0.58	0.59	0.36	0.0107	N	6.4	3	2.2	3.4	1.35	10
	1750	56	69.5	0.57	0.57	0.72	0.0169	L	5.0	2.9	2.4	3.7	1.35	10
	1140	56	67.5	0.56	0.60	1.11	0.0242	K	4.2	2.3	2	2.8	1.35	10
1/3	850	56	64.0	0.53	0.67	1.49	0.0299	J	3.4	1.9	1.8	2.6	1.35	10
	3530	56	69.5	0.64	0.71	0.50	0.0121	M	6.6	3.3	2.7	4.1	1.35	10
	1750	56	73.4	0.60	0.71	1.01	0.0188	L	5.3	3.4	2.7	3.7	1.35	10
1/2	1140	56	71.4	0.59	0.74	1.54	0.0299	K	4.6	2.1	1.8	2.7	1.35	10
	850	56	66.0	0.55	0.86	2.07	0.0382	H	3.4	1.9	1.8	2.6	1.35	10
	3510	56	73.4	0.65	0.97	0.74	0.0121	L	6.3	3.1	3	3.8	1.25	10
1/2	1750	56	78.2	0.63	0.94	1.49	0.0228	L	6.3	3.2	2.7	3.7	1.25	10
	1140	56	75.3	0.63	0.98	2.29	0.0382	J	4.7	2.5	2.3	2.8	1.25	10
	860	56H, 140T	68.0	0.57	1.20	3.03	0.0688	H	3.7	1.9	1.8	2.6	1.25	11.6, 11.7
3/4	3500	56	76.8	0.72	1.25	1.11	0.0142	L	6.9	3.1	2.4	3.4	1.25	10
	1740	56	81.1	0.64	1.33	2.23	0.0268	L	6.4	3.4	2.9	3.9	1.25	10
	1150	56H, 140T	81.7	0.63	1.34	3.37	0.0726	J	5.5	2.5	2.3	3.3	1.25	11.6, 11.7
3/4	860	56H, 140T	70.0	0.58	1.70	4.50	0.0765	H	3.7	1.9	1.8	2.6	1.25	11.6, 11.7
	3500	56	77.0	0.75	1.63	1.50	0.0161	K	6.3	3.1	2.1	3.1	1.25	10
	3510	56H, 140T	79.0	0.73	1.63	1.50	0.0228	K	6.7	2.8	2.2	3.3	1.25	11.6, 11.7
1	1740	56	83.5	0.66	1.71	3.04	0.0387	L	6.9	3.7	3.6	4.4	1.25	10
	1750	56H, 140T	85.5	0.68	1.62	3.02	0.0553	L	7.7	3.4	3.4	4.2	1.25	11.6, 11.7
	1150	56H, 140T	82.5	0.64	1.78	4.59	0.0802	J	5.6	2.2	2.1	3	1.25	11.6, 11.7
1	850	56H, 140T	75.5	0.60	2.08	6.21	0.0916	H	3.9	2	1.9	2.8	1.25	12.8, 12.9
	865	180T	81.0	0.60	1.94	6.11	0.3117	J	4.8	2.1	2	2.9	1.25	13.7
	3500	56	84.0	0.79	2.08	2.21	0.0229	L	8.6	3.1	2.6	3.7	1.25	10
1.5	3510	56H, 140T	84.0	0.81	2.03	2.21	0.0285	K	8.3	3.1	3.2	3.7	1.25	11.6, 11.7
	1740	56H, 140T	86.5	0.73	2.19	4.45	0.0717	K	7.7	3.5	3.2	4.1	1.25	11.6, 11.7
	1150	56H	83.8	0.66	2.50	6.74	0.0935	J	5.7	2.2	2.1	3	1.25	12.8, 12.9
1.5	1170	180T	86.5	0.69	2.31	6.62	0.3465	K	7.1	2.6	1.9	3.6	1.25	13.7
	865	180T	82.0	0.65	2.72	8.96	0.3813	H	4.9	2.1	2	2.9	1.25	13.7
	3500	56	85.5	0.79	2.79	3.02	0.0271	L	8.6	3.5	2.9	4.2	1.25	10
2	3510	56H, 140T	85.5	0.82	2.69	3.01	0.0339	K	8.3	2.8	2	3.3	1.25	11.6, 11.7
	1740	56H, 140T	86.5	0.75	2.90	6.07	0.0880	K	7.7	3.7	3.3	4.1	1.25	12.8, 12.9
	1170	180T	87.5	0.70	3.07	9.03	0.4509	K	6.6	2.6	1.8	3.6	1.25	13.7
2	875	210T	86.5	0.64	3.40	12.10	0.9492	K	6.0	2.1	2	3	1.25	16.5
	3500	56H, 140T	85.5	0.84	3.84	4.43	0.0413	K	8.2	2.6	1.6	3.3	1.25	11.6, 11.7
	1730	56H	86.9	0.78	4.07	8.96	0.1013	K	7.6	3.3	3.1	3.6	1.25	12.8, 12.9
3	1750	180T	89.5	0.81	3.81	8.85	0.2397	K	8.3	2.5	2.4	4.2	1.25	13.7
	1170	210T	88.5	0.73	4.27	13.20	1.0868	J	7.0	2.3	1.6	3.1	1.25	16.5
	875	210T	87.5	0.66	4.78	17.70	0.9492	J	6.1	2.1	2	3	1.25	16.5
5	3470	56H	86.5	0.86	6.24	7.51	0.0560	K	9.0	3.5	2.8	3.8	1	12.8, 12.9
	3500	180T	86.5	0.89	6.03	7.45	0.1305	K	8.4	3	2.3	4.1	1.25	13.7
	1750	180T	89.5	0.83	6.25	14.90	0.3037	K	8.1	2.8	2.4	3.8	1.25	13.7
5	1170	210T	89.5	0.76	6.83	22.30	1.0868	J	7.1	2.4	1.8	2.9	1.25	16.5
	875	254T	88.5	0.65	8.1	30.02	1.5235	H	7	180	110	205	1.25	20
	3510	180T	88.5	0.89	8.76	11.00	0.1633	K	9.2	3.2	2.5	3.8	1.25	13.7
7.5	1750	210T	91.0	0.84	9.03	22.10	0.7926	J	8.3	2.6	1.9	4	1.25	16.5
	1175	254T	90.2	0.75	10.4	33.54	1.8651	J	7.5	200	120	250	1.25	20
	875	256T	89.5	0.65	12.1	45.04	1.8652	H	7	180	110	205	1.25	21.74
10	3520	210T	89.5	0.90	11.7	15.00	0.3797	K	8.9	2.7	1.5	3.9	1.25	16.5
	1760	210T	91.7	0.84	12.2	30.20	0.9729	K	9.0	3.1	1.7	3.8	1.25	16.5
	1175	256T	91.7	0.75	13.6	44.72	2.4125	J	7.5	200	120	250	1.25	21.74
10	875	256T	90.2	0.65	16.0	60.05	2.1252	H	7	180	110	205	1.25	21.74
	875	284T	90.2	0.75	13.8	60.05	2.7211	H	7	180	110	200	1.25	24.9
	3520	210T	90.2	0.91	16.8	22.00	0.4675	L	9.2	3.4	2.1	4.1	1.25	16.5
15	3550	254T	90.2	0.9	17.3	22.20	1.1208	K	8.2	200	120	250	1.25	20
	1770	254T	93	0.83	18.2	44.53	1.9124	K	8.5	200	120	250	1.25	20
	1180	256T	91.7	0.75	20.4	66.79	3.0051	J	7.5	200	120	250	1.25	21.74
15	1180	284T	91.7	0.78	19.6	66.79	4.8125	K	8.5	200	120	250	1.25	24.9
	875	286T	90.2	0.75	20.8	90.07	3.1125	H	7	180	110	200	1.25	24.9
	3550	254T	91	0.9	22.9	29.60	1.2161	K	8.2	200	120	250	1.25	20
20	1770	256T	93	0.85	23.7	59.37	2.5124	K	8.5	200	120	250	1.25	21.74
	1180	286T	92.4	0.78	26.0	89.05	5.9255	K	8.5	200	120	250	1.25	24.9
	875	324T	91	0.8	25.7	120.10	3.4625	H	7	180	110	200	1.25	27.27
25	3550	256T	91.7	0.9	28.4	37.00	1.4012	K	8.2	200	120	250	1.25	21.74
	1775	284T	93.6	0.83	30.1	74.00	3.2511	L	9	200	120	250	1.25	24.9
	1180	324T	93	0.82	30.7	111.32	7.0125	L	9	200	120	250	1.25	27.27
25	875	326T	91	0.8	32.2	150.12	3.8012	H	7	180	110	200	1.25	27.27
	3550	284TS	91.7	0.88	34.8	44.40	1.7856	K	8.5	200	120	250	1.25	23.5
	1775	286T	94.1	0.83	36.0	88.80	3.7122	L	9.2	200	120	250	1.25	24.9
30	1180	326T	93.6	0.82	36.6	133.58	8.1256	L	9	200	120	250	1.25	27.27
	3550	286TS	92.4	0.88	46.1	59.20	2.1142	K	8.5	200	120	250	1.25	23.5
	3555	324TS	92.4	0.88	46.1	59.12	2.5125	K	8.5	200	120	250	1.25	25.77
40	1780	324T	94.1	0.84	47.4	118.07	4.2556	K	8.5	200	120	250	1.25	27.27
	3560	324TS	93	0.88	57.2	73.79	2.9122	K	8.2	200	120	250	1.25	25.77
	1780	326T	94.5	0.85	58.3	147.59	4.8125	K	8.5	200	120	250	1.25	27.27
60	3560	326TS	93.6	0.88	68.2	88.55	3.4012	L	9	200	120	250	1.25	25.77

MEMA MOTOR

TLF Series NEMA Single-Phase Motors Aluminum TEFC

• 1/4HP thru 10HP

STANDARD FEATURES

- 40°C Ambient Rating
- Aluminum Housing
- Ball bearings
- IP 55 Rated
- Removable Feet
- Corrosion Resistant Hardware
- Double Lip Oil Seals

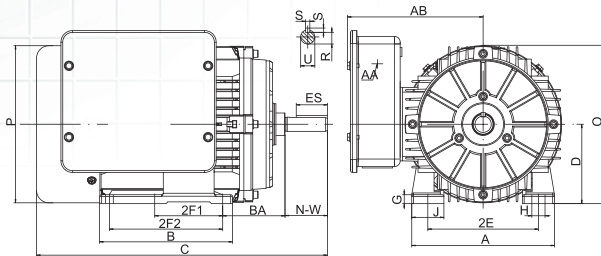


Figure 1 56 thru 210T (Foot Mounting)

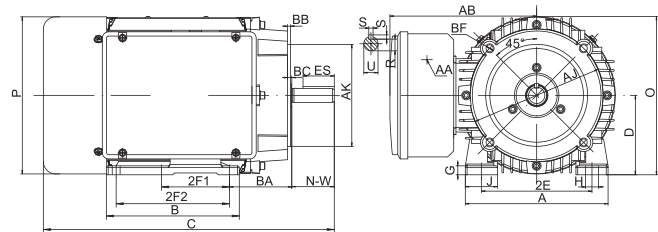


Figure 2 56 thru 140T (C-Face)

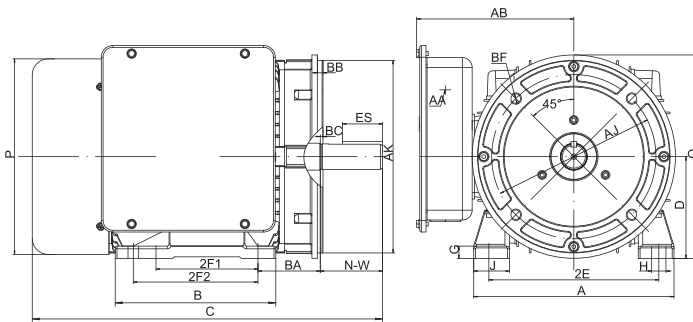


Figure 3 180T, 210T (C-Face)

Overall & Installation Dimensions

Frame	Foot Mounting								Shaft					General					Bearings		C-Face					
	A	B	D	2E	2F1	2F2	BA	H	U	N-W	R	ES	S	AA	G	J	AB	O	P	DE	NDE	AJ	AK	BB	BC	BF
56	6.3	3.95	3.5	4.88	3		2.75	0.73×0.335	0.625	1.875	0.517	1.375	0.1875	1/2-14NPT3/4-14NPT	0.43	1.37	6.05	6.6	6.2	6204	6204	5.875	4.5	0.16	-0.19	4×3/8-16UNC
56H	6.3	5.9	3.5	4.88	3	5	2.75	0.58×0.335	0.625	1.875	0.517	1.375	0.1875	1/2-14NPT3/4-14NPT	0.39	1.41	6.5	7.0	6.95	6205	6205	5.875	4.5	0.16	-0.19	4×3/8-16UNC
140T	6.9	5.86	3.5	5.5	4	5	2.25	0.50×0.35	0.875	2.25	0.771	1.375	0.1875	1/2-14NPT3/4-14NPT	0.47	1.41	6.5	7.0	6.95	6205	6205	5.875	4.5	0.16	0.12	4×3/8-16UNC
180T	8.85	7.1	4.5	7.5	4.5	5.5	2.75	0.59×0.433	1.125	2.75	0.986	1.75	0.25	φ1.11, φ1.33	0.55	1.57	6.95	8.85	8.65	6306	6206	7.25	8.5	0.25	0.12	4×1/2-13UNC
210T	10.3	8.85	5.25	8.5	5.5	7	3.5	0.59×0.433	1.375	3.375	1.201	2.41	0.312	φ1.11, φ1.33	0.63	1.73	8.13	10.4	10.3	6308	6208	7.25	8.5	0.25	0.25	4×1/2-13UNC

NEMA TEFC Single-Phase Motors Technical Data

HP	Full Load Speed, RPM	Frame Size	EFF. 100% FL	Power Factor 100% FL	IFL 230V A	Full Load Torque Lb-Ft	Moment Of Inertia Lb-Ft Squared	Locked Rotor		TST TFL	TM TFL	Service Factor	Dim "C"
								KVA Code	II/In				
1/4	3530	56	68.0	92	1.25	0.36	0.0121	N	9.60	3	2.6	1.15	11.3
	1735	56	70.0	86	1.30	0.73	0.0208	M	8.50	3.1	2.7	1.15	11.3
1/3	3530	56	72.0	92	1.64	0.5	0.0134	M	9.50	3	2.6	1.15	11.3
	1735	56	74.0	86	1.71	1.01	0.0268	L	7.90	3.1	2.7	1.15	11.3
1/2	3530	56	74.0	93	2.34	0.74	0.0161	M	9.40	3	2.6	1.15	11.3
	1730	56	77.0	88	2.37	1.51	0.0327	K	8.10	3.1	2.7	1.15	11.3
3/4	3530	56	77.0	93	3.37	1.10	0.0202	L	8.90	3	2.6	1.15	11.3
	1730	56	78.5	88	3.34	2.24	0.0387	K	8.10	3	2.5	1.15	11.3
1	3530	56H	78.5	95	4.37	1.50	0.0320	L	8.9	3.3	2.6	1.15	13.1
		140T											13.2
	1740	56H	80.0	90	4.53	3.04	0.0619	K	7.8	3	2.4	1.15	13.1
		140T											13.2
1.5	3530	56H	81.5	95	6.18	2.20	0.0377	K	8.5	3.3	2.6	1.15	13.1
		140T											13.2
	1740	56H	81.5	92	6.38	4.45	0.0750	H	6.9	2.8	2.3	1.15	13.1
		140T											13.2
2	3530	56H	82.5	95	8.32	2.99	0.0413	K	8.4	3.1	2.5	1.15	13.1
		140T											13.2
	1735	56H	82.5	92	8.59	6.09	0.0880	H	6.4	2.6	2.2	1.15	13.1
		140T											13.2
3	3530	56H	84.0	96	11.9	4.39	0.0484	J	8.4	3.1	2.5	1.15	13.1
		140T											13.2
	3530	180T	84.0	96	11.9	4.39	0.1139	H	7.5	3.5	2.2	1.15	15.6
		1740											180T
5	3530	180T	84.0	96	20.0	7.38	0.1360	H	7.0	3.5	2.2	1.15	15.6
	1740	180T	84.0	94	20.4	14.98	0.3037	G	6.4	3.2	2.2	1.15	15.6
7.5	3530	210T	84.5	98	28.9	10.98	0.3417	H	7.6	3.5	2.2	1.15	18.6
	1750	210T	84.5	96	29.5	22.14	0.9255	H	7.0	3	2.4	1.15	18.6
10	3530	210T	86.0	98	38.7	14.97	0.4438	H	8.0	3.5	2.2	1.15	18.6
	1750	210T	85.5	96	39.7	30.19	1.1106	H	7.6	2.8	2.2	1.15	18.6

MEMA MOTOR

TLD Series NEMA Single-Phase Motors Aluminum ODP

• 1/4HP thru 10HP

STANDARD FEATURES

- 40°C Ambient Rating
- Aluminum Housing
- Ball bearings
- IP23 Protection
- Removable Feet
- Corrosion Resistant Hardware
- Double Lip Oil Seals

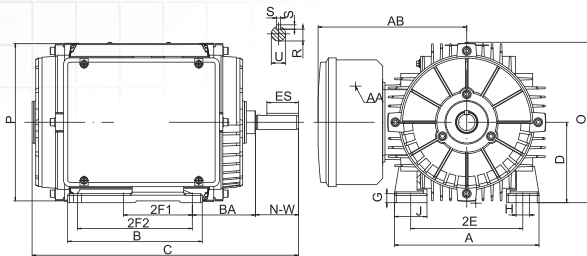
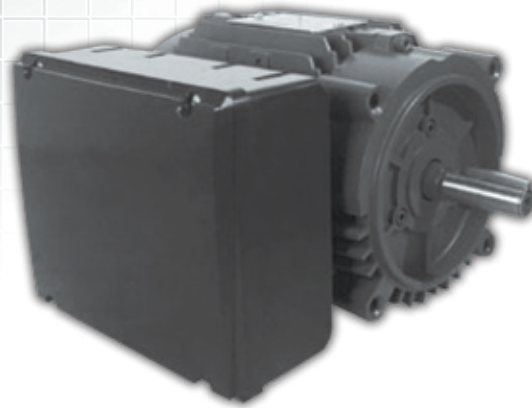


Figure 1 56 thru 210T (Foot Mounting)

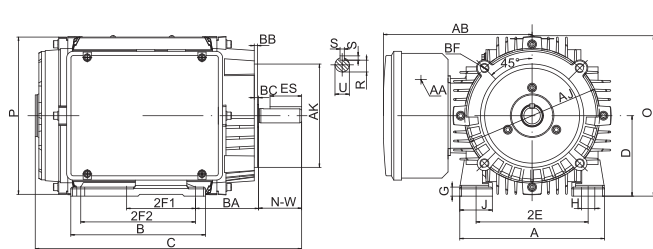


Figure 2 56 thru 140T (C- Face)

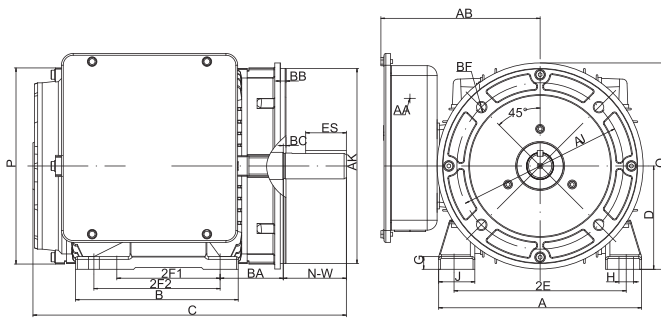


Figure 3 180T, 210T (C- Face)

Overall & Installation Dimensions

Frame	Foot Mounting							Shaft					General					Bearings		C-Face						
	A	B	D	2E	2F1	2F2	BA	H	U	N-W	R	ES	S	AA	G	J	AB	O	P	DE	NDE	AJ	AK	BB	BC	BF
56	6.3	3.95	3.5	4.88	3		2.75	0.73×0.335	0.625	1.875	0.517	1.375	0.1875	1/2-14NPT, 3/4-14NPT	0.43	1.37	6.05	6.6	6.2	6204	6203	5.875	4.5	0.16	-0.19	4×3/8-16UNC
56H	6.3	5.9	3.5	4.88	3	5	2.75	0.58×0.335	0.625	1.875	0.517	1.375	0.1875	1/2-14NPT, 3/4-14NPT	0.39	1.41	6.5	7.0	6.95	6205	6204	5.875	4.5	0.16	-0.19	4×3/8-16UNC
140T	6.9	5.86	3.5	5.5	4	5	2.25	0.50×0.35	0.875	2.25	0.771	1.375	0.1875	1/2-14NPT, 3/4-14NPT	0.47	1.41	6.5	7.0	6.95	6205	6204	5.875	4.5	0.16	0.12	4×3/8-16UNC
180T	8.85	7.1	4.5	7.5	4.5	5.5	2.75	0.59×0.433	1.125	2.75	0.986	1.75	0.25	φ 1.11, φ 1.33	0.55	1.57	6.95	8.85	8.65	6306	6206	7.25	8.5	0.25	0.12	4×1/2-13UNC
210T	10.3	8.85	5.25	8.5	5.5	7	3.5	0.59×0.433	1.375	3.375	1.201	2.41	0.312	φ 1.11, φ 1.33	0.63	1.73	8.13	10.4	10.3	6308	6208	7.25	8.5	0.25	0.25	4×1/2-13UNC

NEMA ODP Single-Phase Motors Technical Data

HP	Full Load Speed, RPM	Frame Size	EFF. 100% FL	Power Factor 100% FL	IFL 230V A	Full Load Torque Lb-Ft	Moment Of Inertia Lb-Ft Squared	Locked Rotor		TST TFL	TM TFL	Service Factor	Dim "C"
								KVA Code	II/In				
1/4	3530	48, 56	66.6	92	1.28	0.36	0.0121	N	9.60	3	2.6	1.15	10.0
	1735	48, 56	68.5	86	1.33	0.73	0.0208	M	8.50	3.1	2.7	1.15	10.0
1/3	3530	48, 56	70.5	92	1.68	0.5	0.0134	M	9.50	3	2.6	1.15	10.0
	1735	48, 56	72.4	86	1.75	1.01	0.0268	L	7.90	3.1	2.7	1.15	10.0
1/2	3530	48, 56	72.4	93	2.39	0.74	0.0161	M	9.40	3	2.6	1.15	10.0
	1730	48, 56	76.2	88	2.40	1.51	0.0327	K	8.10	3.1	2.7	1.15	11.5
3/4	3530	48, 56	76.2	93	3.37	1.10	0.0202	L	8.90	3	2.6	1.15	11.5
	1730	56H	81.8	90	3.25	2.24	0.0619	K	8.10	3	2.5	1.15	11.6
		140T											11.7
1	3530	56H	80.4	95	4.27	1.50	0.0320	L	8.9	3.3	2.6	1.15	11.6
		140T											11.7
	1740	56H	82.6	90	4.39	3.04	0.0750	K	7.8	3	2.4	1.15	12.8
		140T											12.9
1.5	3530	56H	81.5	95	6.18	2.20	0.0377	K	8.5	3.3	2.6	1.15	12.8
		140T											12.9
	1740	56H	83.8	92	6.20	4.45	0.0949	H	6.9	2.8	2.3	1.15	14.8
		140T											14.9
2	3530	56H	82.9	95	8.28	2.99	0.0413	K	8.4	3.1	2.5	1.15	12.8
		140T											12.9
	1735	56H	84.5	92	8.39	6.09	0.1080	H	6.4	2.6	2.2	1.15	14.8
		140T											14.9
3	3530	56H	84.1	96	11.8	4.39	0.0484	J	8.4	3.1	2.5	1.15	14.8
		140T											14.9
	3530	180T	80.0	96	12.5	4.39	0.1139	H	7.5	3.5	2.2	1.15	13.8
1740	180T	82.5	94	12.3	8.91	0.2397	H	7.0	3.5	2.4	1.15	13.8	
5	3530	180T	82.0	96	20.4	7.38	0.1360	H	7.0	3.5	2.2	1.15	13.8
	1740	180T	84.0	94	20.4	14.98	0.3037	G	6.4	3.2	2.2	1.15	16.1
7.5	3530	210T	84.5	98	28.9	10.98	0.3417	H	7.6	3.5	2.2	1.15	16.6
	1750	210T	82.0	96	30.4	22.14	0.9255	H	7.0	3	2.4	1.15	16.6
10	3530	210T	86.0	98	38.7	14.97	0.4438	H	8.0	3.5	2.2	1.15	16.6
	1750	210T	83.5	96	40.7	30.19	1.1106	H	7.6	2.8	2.2	1.15	19.0

MEMA MOTOR

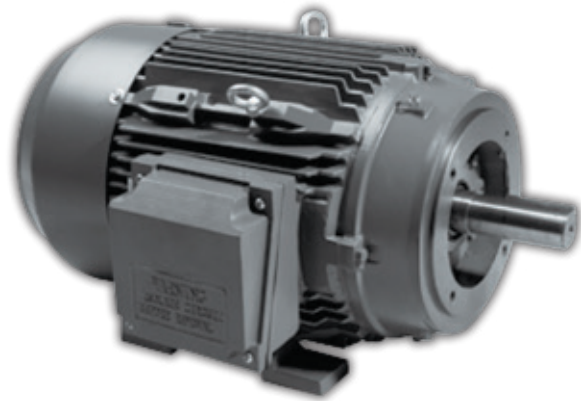
TXC Series NEMA Premium Efficiency 3-Phase Motors

1HP thru 500 HP Cast Iron TEFC

• 143T thru 449T

FEATURES

- 208–230/460V/60Hz or 575V/60Hz
- NEMA Service Factor 1.15/1.25
- Continuous Duty 40°C Ambient
- TEFC (Totally Enclosed Fan Cooled)
- Class F Insulation With Class B Temp Rise
- Cast Iron frames
- NEMA Design B or C
- Ball Bearings
- IP55 Protection
- Up to 445T Available with Integral or Removable Feet



APPLICATIONS

- Pumps
- Compressors
- Fans
- Machine Tools
- Energy saving applications
- Other General Purpose Three Phase Applications

APPLICATIONS(Design C)

- Conveyors
- Gear Reducers
- Applications Requiring Design C Torque



MEMA EPACT & Premium Efficiency 3-Phase Cast Iron TEFC Motors

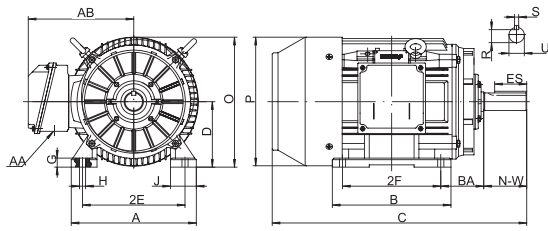


Figure 1 Foot Mounted

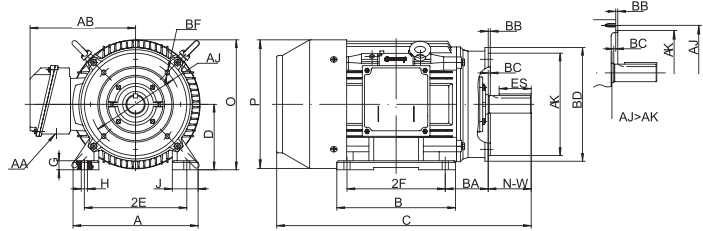


Figure 2 C-Face, Foot Mounted

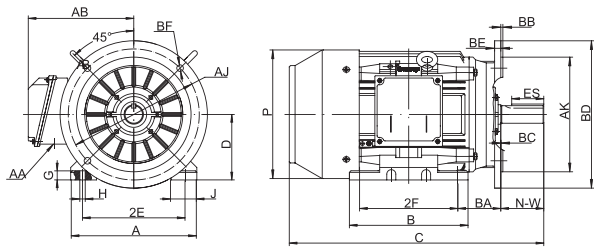


Figure 3 D-Face, Foot Mounted

Overall & Installation Dimensions

Frame	Foot Mounting							Shaft						General					
	A	B	G	J	2E	2F	H	BA	N-W	U	S	R	ES	C	D	O	AA	AB	P
143T	7	5.12	0.55	1.46	5.5	4	0.34	2.25	2.25	0.875	0.188	0.771	1.41	13	3.5	7.01	3/4	5.9	6.93
145T		6.1				5								14					
182T		6.1				4.5								15.5	4.5	8.83	3/4	7.17	8.66
184T	9	7.09	0.675	1.77	7.5	5.5	0.41	2.75	2.75	1.125	0.25	0.986	1.78	16.5					
213T		7.48				5.5								18.78	5.25	10.35	1	7.95	10.2
215T	10.27	8.98	0.71	1.81	8.5	7	0.41	3.5	3.38	1.375	0.312	1.201	2.42	20.28					
254T		10.35				8.25								24	6.25	12.44	1-1/4	10.1	12.36
256T	12.36	12.05	0.63	2.36	10	10	0.53	4.25	4	1.625	0.375	1.416	2.91	25.73					
284T		12.2				9.5								27.37	7	13.9	1-1/2	10.83	13.78
286T	13.8	13.7	0.985	2.95	11	11	0.53	4.75	4.62	1.875	0.5	1.591	3.28	28.87					
284TS		12.2				9.5								26	7	13.9	1-1/2	10.83	13.78
286TS	13.8	13.7	0.985	2.95	11	11	0.53	4.75	3.25	1.625	0.375	1.416	1.91	27.5					
324T		13				10.5								29.8	8	15.9	2	13	15.71
326T	15.4	14.5	1.12	3.15	12.5	12	0.66	5.25	5.25	2.125	0.5	1.845	3.91	31.3					
324TS		13				10.5								28.3	8	15.9	2	13	15.71
326TS	15.4	14.5	1.12	3.15	12.5	12	0.66	5.25	3.75	1.875	0.5	1.591	2.03	29.8					
364T		14.2				11.25								33.47	9	18	3	14.2	18.07
365T	17.17	15.2	1.24	3.15	14	12.25	0.66	5.88	5.88	2.375	0.625	2.021	4.28	34.47					
364TS		14.2				11.25								31.34	9	18	3	14.2	18.07
365TS	17.17	15.2	1.24	3.15	14	12.25	0.66	5.88	3.75	1.875	0.5	1.591	2.03	32.34					
404T						12.25													
405T	19.06	17.44	1.33	3.15	16		0.81	6.62	7.25	2.875	0.75	2.45	5.65	37.76	10	20	3	15.3	19.96
405TS						13.75			4.25	2.125	0.5	1.845	2.78	34.77					
444T						14.5													
445T	21.93	20.08	1.315	3.94	18	16.5	0.81	7.5	8.5	3.375	0.875	2.88	6.91	44.05					
444TS						14.5													
445TS	21.93	20.08	1.315	3.94	18	16.5	0.81	7.5	4.75	2.375	0.625	2.021	3.03	40.3	11	22	3	18	22.01
447T						20													
449T	21.93	28.6	1.315	3.94	18	25	0.81	7.5	8.5	3.375	0.875	2.88	6.91	52.55					
447TS						20													
449TS	21.93	28.6	1.315	3.94	18	25	0.81	7.5	4.75	2.375	0.625	2.021	3.03	48.8	11	22	3	18	22.01
447T*						20													
449T*	21.93	33.46	1.46	4.1	18	25	0.81	7.5	8.5	3.375	0.875	2.88	6.91	58.65					
447TS*						20													
449TS*	21.93	33.46	1.46	4.1	18	25	0.81	7.5	4.75	2.375	0.625	2.021	3.03	54.91	11	25.37	3	19.7	24.8

Note: The frame size with an asterisk *, which external dimensions are slightly different from the conventional frame sizes 447/449.

Frame	C-Face						D-Face						
	AJ	AK	BB	BC	BD	BF	AJ	AK	BB	BC	BD	BE	BF
143-145T	5.875	4.5	0.16	0.12	6.5	4*3/8-16	10.0	9.0	0.25	0	11	0.5	4*0.53
182-184T	7.25	8.5	0.25	0.12	9	4*1/2-13	10.0	9.0	0.25	0	11	0.5	4*0.53
213-215T	7.25	8.5	0.25	0.25	8.95	4*1/2-13	10.0	9.0	0.25	0	11	0.5	4*0.53
254-256T	7.25	8.5	0.25	0.25	10	4*1/2-13	12.5	11.0	0.25	0	14	0.75	4*0.81
284-286T/TS	9	10.5	0.25	0.25	11.25	4*1/2-13	12.5	11.0	0.25	0	14	0.75	4*0.81
324-326T/TS	11	12.5	0.25	0.25	14	4*5/8-11	16.0	14.0	0.25	0	18	0.75	4*0.81
364-365T/TS	11	12.5	0.25	0.25	14	8*5/8-11	16.0	14.0	0.25	0	18	0.75	4*0.81
404-405T/TS	11	12.5	0.25	0.25	15.5	8*5/8-11	20.0	18.0	0.25	0	22	1	8*0.81
444-449T/TS	14	16	0.25	0.25	18	8*5/8-11	20.0	18.0	0.25	0	22	1	8*0.81

T XC Series NEMA Premium Efficiency TEFC Motor Design A Technical Data(60Hz)

HP	Full Load Speed (r/min)	NEMA Frame	Full Load Current			Eff. 100%FL	Power Factor (cos Φ)	Full Load Torque lbf-ft	KVA Code	Locked Rotor		BDT (%FL)	Service Factor	Moment of inertia (lb*ft ²)	Net weight (lbs)
			I _n 230V (A)	I _n 460V (A)	I _n 575V (A)					LRA 230V (A)	LRT (%FL)				
1	3500	143T	3.0	1.5	1.2	77	0.83	1.50	K	22	220	300	1.25	0.0278	41.2
	1740	143T	3.0	1.5	1.2	85.5	0.75	3.02	J	19	280	300	1.25	0.0657	46.3
	1150	145T	3.4	1.7	1.3	82.5	0.68	4.57	H	17	200	270	1.25	0.1153	52.9
1.5	3500	143T	4.0	2.0	1.6	84	0.84	2.25	K	32	220	300	1.25	0.0373	41.9
	1740	145T	4.4	2.2	1.7	86.5	0.75	4.53	L	34	280	300	1.25	0.0885	54.0
	1175	182T	4.8	2.4	1.9	87.5	0.66	6.71	L	35	220	300	1.25	0.4286	93.7
2	3500	145T	5.2	2.6	2.1	85.5	0.85	3.00	L	47	220	300	1.25	0.0470	48.5
	1740	145T	5.6	2.8	2.2	86.5	0.78	6.04	K	42	280	300	1.25	0.1113	59.5
	1175	184T	6.2	3.1	2.5	88.5	0.68	8.94	L	46	220	300	1.25	0.5700	112.5
3	3510	182T	7.2	3.6	2.9	86.5	0.9	4.49	K	61	200	280	1.25	0.1115	82.7
	1750	182T	8.0	4.0	3.2	89.5	0.79	9.01	L	71	220	300	1.25	0.2831	94.8
	1175	213T	8.8	4.4	3.5	89.5	0.72	13.41	K	67	200	300	1.25	1.0268	147.7
5	3510	184T	11.4	5.7	4.6	88.5	0.92	7.48	K	107	200	280	1.25	0.1607	97.0
	1750	184T	12.6	6.3	5.0	89.5	0.83	15.01	K	108	220	300	1.25	0.3669	110.3
	1175	215T	13.8	6.9	5.5	89.5	0.76	22.36	K	105	200	300	1.25	1.2912	172
7.5	3520	213T	17.4	8.7	7.0	89.5	0.9	11.19	J	150	200	280	1.25	0.3479	140
	1750	213T	17.8	8.9	7.1	91.7	0.86	22.52	J	142	200	250	1.25	0.9082	159
	1170	254T	20.8	10.4	8.3	91	0.74	33.68	K	167	200	250	1.25	2.0700	247
10	3520	215T	22.6	11.3	9.0	90.2	0.92	14.93	K	214	200	280	1.25	0.4533	165
	1750	215T	23.8	11.9	9.5	91.7	0.86	30.02	J	189	200	250	1.25	1.1149	182
	1175	256T	27.8	13.9	11.1	91	0.74	44.72	K	222	200	250	1.25	2.6008	278
15	3550	254T	33.6	16.8	13.4	91	0.92	22.20	K	303	200	280	1.25	1.2283	255
	1770	254T	35.4	17.7	14.1	92.4	0.86	44.53	J	285	220	300	1.25	2.2164	279
	1180	284T	37.8	18.9	15.1	91.7	0.81	66.79	L	340	200	280	1.25	5.7264	364
20	3550	256T	45.2	22.6	18.1	91	0.91	29.60	J	379	200	280	1.25	1.3261	276
	1770	256T	46.8	23.4	18.7	93	0.88	59.37	K	424	200	300	1.25	2.7824	331
	1180	286T	49.8	24.9	19.9	91.7	0.82	89.05	K	442	200	280	1.25	6.6386	404
25	3545	284TS	56.8	28.4	22.7	91.7	0.9	37.05	H	415	200	250	1.25	1.8016	354
	1775	284T	58.2	29.1	23.3	93.6	0.86	74.00	K	545	220	300	1.25	3.5714	366
	1180	324T	62.2	31.1	24.9	93	0.81	111.32	K	559	200	280	1.25	9.3474	501
30	3550	286TS	68.0	34.0	27.2	91.7	0.9	44.40	J	598	200	250	1.25	1.9359	375
	1775	286T	69.8	34.9	27.9	93.6	0.86	88.80	K	662	220	300	1.25	4.0399	397
	1180	326T	74.6	37.3	29.8	93	0.81	133.58	K	671	200	280	1.25	10.6666	648
40	3555	324TS	91.0	45.5	36.4	92.4	0.89	59.12	H	689	200	280	1.25	3.3692	485
	1780	324T	93.6	46.8	37.5	94.1	0.85	118.07	H	680	200	220	1.25	7.1424	539
	1185	364T	92.6	46.3	37.0	94.1	0.86	177.36	K	818	220	280	1.15	15.8991	725
50	3560	326TS	111.8	55.9	44.7	93	0.9	73.79	J	939	200	280	1.25	4.0145	529
	1780	326T	115.2	57.6	46.1	94.5	0.86	147.59	J	998	200	220	1.25	8.3396	601
	1185	365T	116.0	58.0	46.3	94.1	0.86	221.69	K	1099	220	280	1.15	18.2263	792
60	3560	364TS	134	67	53	93.6	0.9	88.55	K	1252	200	280	1.15	7.2912	762
	1780	364T	136	68	54	95	0.87	177.11	K	1338	220	280	1.15	16.1862	783
	1185	404T	140	70	56	94.5	0.85	266.03	J	1104	200	230	1.15	28.8796	976
75	3560	365TS	165	82	66	93.6	0.91	110.69	G	1184	200	280	1.15	8.5000	785
	1780	365T	167.2	83.6	67	95.4	0.88	221.38	K	1675	220	280	1.15	18.9957	873
	1185	405T	173	87	69	94.5	0.86	332.54	H	1303	200	230	1.15	34.1302	1045
100	3565	405TS	222	111	88	94.1	0.9	147.38	K	2080	220	280	1.15	11.8424	1021
	1780	405T	228	114	91	95.4	0.86	295.18	L	2266	220	280	1.15	20.8694	1025
	1190	444T	230	115	92	95	0.86	441.53	H	1721	200	250	1.15	76.1733	1590
125	3570	444TS	-	134	107	95	0.92	183.97	K	2512	200	250	1.15	22.3970	1438
	1785	444T	-	138	110	95.4	0.89	367.94	K	2536	250	320	1.15	45.1563	1480
	1190	445	-	147	117	95	0.84	551.91	J	2317	200	250	1.15	84.8372	1731
150	3570	445TS	-	159	127	95	0.93	220.76	H	2652	200	250	1.15	25.9333	1544
	1785	445T	-	165	132	95.8	0.89	441.53	K	3258	250	320	1.15	55.5355	1632
	1190	447T	-	175	140	95.8	0.84	662.29	K	3072	200	250	1.15	102.6656	2042
200	3570	447TS	-	218	171	95.4	0.9	294.35	K	3840	200	250	1.15	30.7095	1859
	1785	447T	-	217	174	96.2	0.9	588.70	H	3411	250	250	1.15	71.6045	2055
	1190	449T	-	233	186	95.8	0.84	883.05	K	4091	200	250	1.15	123.7071	2245
250	3570	449TS	-	271	212	95.8	0.9	367.94	K	4781	200	250	1.15	36.8791	2024
	1785	449T	-	270	216	96.2	0.9	735.88	H	4374	250	250	1.15	85.4436	2289
	1190	449T*	-	291	233	95.8	0.84	1103.82	J	4654	200	250	1.15	150.937	2597
300	3570	449TS	-	326	261	95.8	0.9	441.53	H	5212	200	250	1.15	63.641	2271
	1785	449T	-	324	260	96.2	0.9	883.05	H	5191	250	250	1.15	97.532	2443
	1190	449T*	-	349	279	95.8	0.84	1324.58	J	5585	200	250	1.15	171.998	3025
350	3570	449TS*	-	384	307	95.8	0.89	515.11	H	6150	200	250	1.15	53.676	2602
	1785	449T*	-	387	310	96.2	0.88	1030.23	H	6194	250	250	1.15	118.256	2849
	1190	449T*	-	407	326	95.8	0.84	1545.34	J	6516	200	250	1.15	190.792	3237
400	3570	449TS*	-	439	351	95.8	0.89	588.70	H	7028	200	250	1.15	63.597	2884
	1785	449T*	-	442	354	96.2	0.88	1177.41	H	7078	250	250	1.15	130.047	3025
	1190	449T*	-	465	372	95.8	0.84	1766.11	J	7446	200	250	1.15	219.023	3554
450	3570	449TS*	-	494	395	95.8	0.89	662.29	H	7907	200	250	1.15	68.581	3025
	1785	449T*	-	498	398	96.2	0.88	1324.58	H	7963	250	250	1.15	146.554	3272
500	3570	449TS*	-	549	439	95.8	0.89	735.88	H	8785	200	250	1.15	78.500	3308
	1785	449T*	-	553	442	96.2	0.88	1471.76	H	8848	250	250	1.15	163.051	3519

Note: The frame size and external dimensions with an asterisk *, should be one-to-one correspondence relationship.

T XC Series NEMA Premium Efficiency TEFC Motor Design B Technical Data(60Hz)

HP	Full Load Speed (r/min)	NEMA Frame	Full Load Current			Eff. 100%FL	Power Factor (cos Φ)	Full Load Torque lbf-ft	KVA Code	Locked Rotor		BDT (%FL)	Service Factor	Moment of inertia (lb*in ²)	Net weight (lbs)
			I _n 230V (A)	I _n 460V (A)	I _n 575V (A)					LRA 230V (A)	LRT (%FL)				
1	3500	143T	3.0	1.5	1.2	77	0.83	1.50	K	22	220	300	1.25	0.027765	41.23
	1740	143T	3.0	1.5	1.2	85.5	0.75	3.02	J	19	280	300	1.25	0.065733	46.31
	1150	145T	3.4	1.7	1.3	82.5	0.68	4.57	H	17	200	270	1.25	0.115330	52.92
1.5	3500	143T	4.0	2.0	1.6	84	0.84	2.25	K	32	220	300	1.25	0.037257	41.90
	1740	145T	4.4	2.2	1.7	86.5	0.75	4.53	L	34	280	300	1.25	0.088514	54.02
	1175	182T	4.8	2.4	1.9	87.5	0.66	6.71	L	35	220	300	1.25	0.428570	93.71
2	3500	145T	5.2	2.6	2.1	85.5	0.85	3.00	L	47	220	300	1.25	0.046986	48.51
	1740	145T	5.6	2.8	2.2	86.5	0.78	6.04	K	42	280	300	1.25	0.111295	59.54
	1175	184T	6.2	3.1	2.5	88.5	0.68	8.94	L	46	220	300	1.25	0.570003	112.46
3	3510	182T	7.2	3.6	2.9	86.5	0.9	4.49	K	61	200	280	1.25	0.111533	82.69
	1750	182T	7.6	3.8	3.1	89.5	0.82	9.01	K	64	220	300	1.25	0.283103	97.46
	1175	213T	8.8	4.4	3.5	89.5	0.72	13.41	K	64	200	250	1.25	1.070477	151.70
5	3510	184T	11.4	5.7	4.6	88.5	0.92	7.48	J	92	180	250	1.25	0.160655	97.02
	1750	184T	12.4	6.2	4.9	89.5	0.85	15.01	J	92	185	250	1.25	0.380635	112.90
	1175	215T	13.8	6.9	5.5	89.5	0.76	22.36	J	92	190	240	1.25	1.291169	171.99
7.5	3510	213T	17.0	8.5	6.8	89.5	0.92	11.23	H	127	180	250	1.25	0.365210	143.99
	1750	213T	19.0	9.5	7.6	91.7	0.81	22.52	H	127	180	220	1.25	1.010439	162.73
	1175	254T	20.6	10.3	8.2	91	0.75	33.54	H	127	180	220	1.25	2.507588	246.96
10	3510	215T	22.4	11.2	8.9	90.2	0.93	14.97	H	162	180	250	1.25	0.487659	173.31
	1750	215T	25.2	12.6	10.1	91.7	0.81	30.02	H	162	180	220	1.25	1.251302	193.82
	1175	256T	27.0	13.5	10.8	91	0.76	44.72	H	162	180	220	1.25	2.775741	277.83
15	3530	254T	33.6	16.8	13.4	91	0.92	22.33	G	232	180	220	1.25	1.228284	254.68
	1770	254T	34.6	17.3	13.8	92.4	0.88	44.53	G	232	180	220	1.25	2.373037	278.93
	1180	284T	40.4	20.2	16.1	91.7	0.76	66.79	G	232	180	210	1.25	6.627417	396.90
20	3530	256T	45.2	22.6	18.1	91	0.91	29.77	G	290	180	220	1.25	1.326053	275.63
	1770	256T	45.8	22.9	18.3	93	0.88	59.37	G	290	180	220	1.25	2.942328	330.75
	1180	286T	53.8	26.9	21.5	91.7	0.86	89.05	G	290	180	210	1.25	7.719726	443.21
25	3530	284TS	56.2	28.1	22.4	91.7	0.91	37.21	G	365	170	200	1.25	1.801609	353.90
	1770	284T	61.0	30.5	24.4	93.6	0.82	74.21	G	365	180	220	1.25	3.571420	366.03
	1175	324T	63.8	31.9	25.5	93	0.79	111.79	G	365	150	200	1.25	9.608188	500.54
30	3530	286TS	67.4	33.7	26.9	91.7	0.91	44.65	G	435	170	200	1.25	1.997385	381.47
	1770	286T	70.6	35.3	28.2	93.6	0.85	89.05	G	435	180	220	1.25	4.270991	416.75
	1175	326T	76.4	38.2	30.6	93	0.79	134.15	G	435	150	200	1.25	11.709987	680.24
40	3550	324TS	90.0	45.0	36.0	92.4	0.9	59.20	G	580	180	210	1.25	3.684377	509.36
	1770	324T	91.4	45.7	36.6	94.1	0.87	118.74	G	580	180	210	1.25	7.142366	539.12
	1180	364T	96.0	48.0	38.4	94.1	0.83	178.11	G	580	180	200	1.15	19.002091	809.24
50	3550	326TS	110.6	55.3	44.3	93	0.91	74.00	G	725	180	210	1.25	4.854996	593.15
	1770	326T	112.6	56.3	45.0	94.5	0.88	148.42	G	725	180	210	1.25	8.376820	617.18
	1180	365T	120.0	60.0	48.0	94.1	0.83	222.63	G	725	180	200	1.15	22.105074	895.23
60	3560	364TS	132	66	53	93.6	0.91	88.55	G	870	140	210	1.15	7.636432	782.78
	1775	364T	137.6	68.8	55	95	0.86	177.61	G	870	160	210	1.15	16.186246	782.78
	1185	404T	144	72	57	94.5	0.83	266.03	G	870	180	210	1.15	32.817436	1041.86
75	3560	365TS	165	82.5	66	93.6	0.91	110.69	G	1085	160	210	1.15	9.017539	815.85
	1775	365T	169.2	84.6	68	95.4	0.87	222.01	G	1085	160	210	1.15	18.984294	873.18
	1185	405T	180	90	72	94.5	0.83	332.54	G	1085	180	210	1.15	38.680498	1122.35
100	3560	405TS	224	112	89	94.1	0.89	147.59	G	1450	150	210	1.15	13.680082	1098.09
	1780	405T	234	117	93	95.4	0.84	295.18	G	1450	200	210	1.15	27.020820	1179.68
	1190	444T	238	119	94	95	0.83	441.53	G	1450	200	210	1.15	83.599710	1678.01
125	3560	444TS	276	137	110	95	0.9	184.49	G	1815	160	210	1.15	22.396958	1437.66
	1785	444T	276	138	110	95.4	0.89	367.94	G	1815	190	200	1.15	45.156278	1479.56
	1190	445	294	147	117	95	0.84	551.91	G	1815	200	210	1.15	93.497646	1775.03
150	3565	445TS	324	162	130	95	0.91	221.07	G	2170	160	210	1.15	30.353987	1691.24
	1785	445T	330	165	132	95.8	0.89	441.53	G	2170	200	200	1.15	57.265410	1661.47
	1190	447T	344	172	138	95.8	0.85	662.29	G	2170	200	210	1.15	111.329830	2130.03
200	3570	447TS	432	216	173	95.4	0.91	294.35	G	2900	200	210	1.15	35.120943	2006.55
	1785	447T	438	219	175	96.2	0.89	588.70	G	2900	200	200	1.15	71.604484	2055.06
	1190	449T	460	230	184	95.8	0.85	883.05	G	2900	200	210	1.15	136.084400	2376.99
250	3570	449TS	538	269	215	95.8	0.91	367.94	G	3650	200	210	1.15	45.739570	2262.33
	1785	449T	546	273	219	96.2	0.89	735.88	G	3650	200	200	1.15	88.903210	2288.79

NEMA MOTOR

EMA EPACT Efficiency TEFC Motors Technical Data—Design C

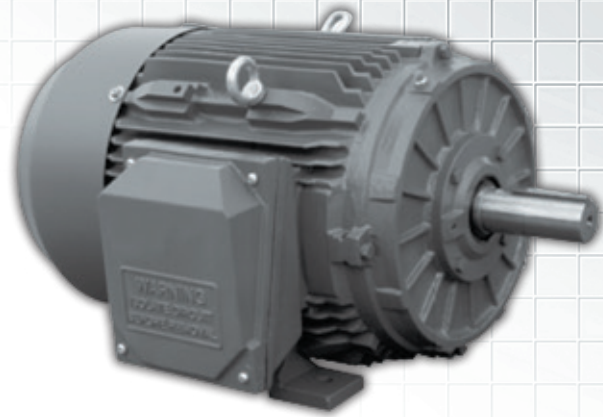
HP	Full Load Speed (r/min)	NEMA Frame	Conn	Code	Current at 460V		Torque			Efficiency Full Load (%)
					Full Load (A)	Locked Rotor (A)	Full Load LB-FT	Locked Rotor (%)	Break Down (%)	
1	3450	143T	2Y/Y	N	1.4	15	1.5	245	225	74.0
	1720	143T	2Y/Y	N	1.7	15	3.1	285	200	73.0
	1150	145T	2Y/Y	N	2.0	15	4.6	255	225	72.0
1.5	3450	143T	2Y/Y	M	2.1	20	2.2	240	225	78.0
	1720	145T	2Y/Y	M	2.4	20	4.5	285	200	77.0
	1150	182T	2Y/Y	M	2.6	20	6.8	250	225	72.0
2	3450	145T	2Y/Y	L	2.8	25	3.0	240	225	79.0
	1720	145T	2Y/Y	L	3.1	25	6.1	285	200	78.5
	1150	184T	2Y/Y	L	3.3	25	9.2	250	225	78.5
3	3450	182T	2Y/Y	K	4.0	32	4.5	240	225	80.0
	1720	182T	2Y/Y	K	4.3	32	9.0	270	200	82.5
	1150	213T	2Y/Y	K	4.7	32	13.5	250	225	81.5
5	3450	184T	2Y/Y	J	6.4	46	7.5	240	200	82.0
	1720	184T	2Y/Y	J	6.9	46	15.2	255	200	82.5
	1150	215T	2Y/Y	J	8.3	46	22.6	250	200	82.5
7.5	3450	213T	2Y/Y	H	9.4	64	11.2	215	200	83.0
	1720	213T	2Y/Y	H	9.9	64	22.5	250	200	84.0
	1150	254T	2Y/Y	H	11.2	64	33.8	225	190	86.5
10	3450	215T	2Y/Y	H	12.2	81	15.0	215	190	84.0
	1720	215T	2Y/Y	H	13.0	81	30.5	250	200	84.0
	1150	256T	2Y/Y	H	15.0	81	45.0	225	190	86.5
15	3450	254T	2Δ/Δ	G	18.4	116	22.5	200	180	87.0
	1720	254T	2Δ/Δ	G	19.7	116	45.4	225	200	87.5
	1150	284T	2Δ/Δ	G	20.3	116	66.8	210	190	88.5
20	3450	256T	2Δ/Δ	G	23.1	145	29.8	180	180	86.5
	1720	256T	2Δ/Δ	G	24.7	145	60.0	200	200	87.5
	1150	286T	2Δ/Δ	G	25.8	145	89.4	200	190	88.5
25	3450	284TS	2Δ/Δ	G	28.9	183	37.2	200	190	89.5
	1720	284T	2Δ/Δ	G	29.6	183	74.2	200	190	89.5
	1150	324T	2Δ/Δ	G	31.9	183	111.3	200	190	89.5
30	3450	286TS	2Δ/Δ	G	34.5	218	44.4	200	190	91.0
	1720	286T	2Δ/Δ	G	35.5	218	89.1	200	190	91.0
	1150	326T	2Δ/Δ	G	38.0	218	133.6	200	190	91.0
40	3450	324TS	2Δ/Δ	G	46.5	290	59.1	200	190	90.2
	1720	324T	2Δ/Δ	G	47.1	290	118.7	200	190	91.0
	1150	364T	2Δ/Δ	G	48.4	290	178.1	200	190	91.0
50	3450	326TS	2Δ/Δ	G	58.4	363	73.8	200	190	91.0
	1720	326T	2Δ/Δ	G	59.2	363	148.4	200	190	91.7
	1150	365T	2Δ/Δ	G	60.5	363	222.6	200	190	91.0
60	3450	364TS	2Δ/Δ	G	64.5	435	88.6	200	190	91.7
	1720	364T	2Δ/Δ	G	69.4	435	177.6	200	190	91.7
	1150	404T	2Δ/Δ	G	70.2	435	266.0	200	190	91.7
75	3450	365TS	2Δ/Δ	G	84.3	543	110.0	200	190	91.7
	1720	365T	2Δ/Δ	G	86.2	543	222.0	200	190	92.4
	1150	405T	2Δ/Δ	G	87.7	543	333.0	200	190	91.7
100	3450	405TS	2Δ/Δ	G	100.2	725	147.2	200	190	91.8
	1720	405T	2Δ/Δ	G	114.0	725	295.2	200	190	92.4
	1150	444T	2Δ/Δ	G	116.0	725	445.2	200	190	91.7
125	3450	444TS	2Δ/Δ	G	137.0	908	183.7	200	190	92.4
	1720	444T	2Δ/Δ	G	141.0	908	368.3	200	190	92.4
	1150	445T	2Δ/Δ	G	145.0	908	556.5	200	190	92.4
150	3450	445TS	2Δ/Δ	G	164.0	1085	220.4	200	190	93.0
	1720	445T	2Δ/Δ	G	169.0	1085	442.0	200	190	93.0
	1150	447T	2Δ/Δ	G	170.0	1085	668.0	200	190	92.4
200	3450	447TS	Δ	G	215.0	1450	294.0	200	190	93.6
	1720	447T	Δ	G	223.0	1450	589.3	200	190	93.0

TFC Series Crusher Duty Motors

75HP thru 200HP Cast Iron TEFC

STANDARD FEATURES

- NEMA Design "C"
- 6 Lead – 460V
- Drive-end Roller Bearings
- Oversized Bearings on DE & ODE
- 4140 Carbon Steel Shaft
- Split Conduit Box is 90° Rotatable
- F1 to F2 Field Convertible (Shipped F1)



Crusher Duty Motors Technical Data

Model	Frame	HP	RPM	SF	Voltage	Hz	FLA	KVA Code	PF	Eff		DES	Ins Class	AMB	Enc	IP	LRA	LRT	BDT	Duty	Bearings	
										460V	(%FL)						(%FL)	DE	NDE			
TFC365T75U4B	365T	75	1775	1.15	460	60	85.8	K	87.0	94.1	93.5	C	F	40	TEFC	55	755	330	285	Cont.	NU313	6313 C3
TFC405T100U4B	405T	100	1780	1.15	460	60	115.2	H	86.0	94.5	94.3	C	F	40	TEFC	55	864	225	300	Cont.	NU316	6314 C3
TFC405T75U6B	405T	75	1185	1.15	460	60	88.3	J	85.0	93.6	93.8	C	F	40	TEFC	55	741	275	290	Cont.	NU316	6314 C3
TFC444T125U4B	444T	125	1780	1.15	460	60	142.4	K	87.0	94.5	94.4	C	F	40	TEFC	55	1281	265	380	Cont.	NU319	6319 C3
TFC445T150U4B	445T	150	1780	1.15	460	60	168.0	J	88.0	95.0	94.6	C	F	40	TEFC	55	1378	240	290	Cont.	NU319	6319 C3
TFC444T100U6B	444T	100	1180	1.15	460	60	115.7	J	86.0	94.1	94.0	C	F	40	TEFC	55	902	230	245	Cont.	NU319	6319 C3
TFC445T125U6B	445T	125	1180	1.15	460	60	144.6	J	86.0	94.1	94.1	C	F	40	TEFC	55	1128	275	240	Cont.	NU319	6319 C3
TFC447T200U4B	447T	200	1780	1.15	460	60	221.5	J	89.0	95.0	94.7	C	F	40	TEFC	55	1883	275	295	Cont.	NU319	6319 C3
TFC447T250U4B	449T	250	1780	1.15	460	60	273.8	H	90.0	95.0	94.7	C	F	40	TEFC	55	2163	256	265	Cont.	NU319	6319 C3
TFC447T150U6B	447T	150	1180	1.15	460	60	171.9	J	86.0	95.0	94.5	C	F	40	TEFC	55	1410	260	245	Cont.	NU319	6319 C3
TFC449T200U6B	449T	200	1180	1.15	460	60	226.6	J	87.0	95.0	94.5	C	F	40	TEFC	55	1813	240	245	Cont.	NU319	6319 C3

NEMA MOTOR

TOC Series Oil Pumper Motors

3HP thru 125HP Design D foot mounted

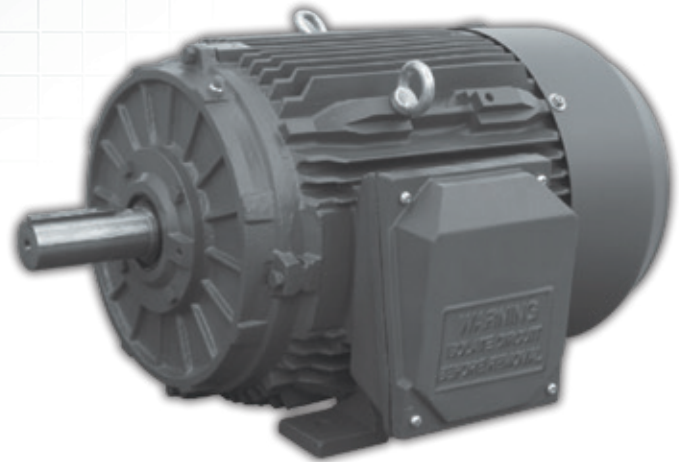
- **213T thru 445T**
- **Cast Iron TEFC**

FEATURES

- Two-part epoxy paint,
- Moisture-resistant insulation,
- Shaft slinger, F2 position conduit box.

APPLICATIONS

- Oil field pumps and applications requiring high torque & high slip



T OC Oil Pumper Motors Technical Data

Model	Frame	HP	RPM	SF	Voltage	Hz	FLA	FLA	KVA Code	PF	Eff		DES	Ins Class	AMB	IP	FLA	FLA	LRA	LRT	BDT	Duty	Bearing	
							230V	460V			FL	3/4					208V	796V	230V	(%FL)	(%FL)		DE	NDE
TOC213T3U6B	213T	3	1123	1.15	230/460	60	8.8	4.4	J	77.0	82.7	83.2	D	F	40	55	9.7	2.53	54.6	325	345	Cont.	6308ZZ	
TOC215T5U6B	215T	5	1115	1.15	230/460	60	13.6	6.8	J	81.0	84.3	85.5	D	F	40	55	15.1	3.95	90.7	345	320	Cont.	6308ZZ	
TOC254T7.5U6B	254T	7.5	1110	1.15	230/460	60	20.4	10.2	G	83.0	84.0	85.4	D	F	40	55	22.6	5.91	117.3	280	230	Cont.	6309 C3	
TOC256T10U6B	256T	10	1138	1.15	230/460	60	26	13	H	83.0	87.0	87.3	D	F	40	55	28.8	7.53	160.2	278	250	Cont.	6309 C3	
TOC284T15U6B	284T	15	1139	1.15	230/460	60	38.2	19.1	G	84.0	87.7	87.9	D	F	40	55	42.3	11.05	229.6	285	250	Cont.	6311 C3	
TOC286T20U6B	286T	20	1115	1.15	230/460	60	49.6	24.8	G	88.0	86.4	87.9	D	F	40	55	54.8	14.32	286.7	300	270	Cont.	6311 C3	
TOC324T25U6B	324T	25	1135	1.15	230/460	60	60	30	F	86.0	90.7	91.4	D	F	40	55	66.5	17.38	334.2	345	320	Cont.	6312 C3	
TOC326T30U6B	326T	30	1136	1.15	230/460	60	71	35.5	F	86.0	91.1	91.9	D	F	40	55	78.5	20.51	390.5	290	360	Cont.	6312 C3	
TOC364T40U6B	364T	40	1135	1.15	230/460	60	92	46	F	89.0	91.5	92.5	D	F	40	55	101.8	26.60	562.1	278	280	Cont.	6313 C3	
TOC365T50U6B	365T	50	1138	1.15	230/460	60	111	55.5	F	91.0	91.9	92.8	D	F	40	55	122.8	32.09	691.5	285	250	Cont.	6313 C3	
TOC404T60U6B	404T	60	1135	1.15	230/460	60	135.2	67.6	F	90.0	92.0	93.0	D	F	40	55	149.5	39.07	830.1	280	280	Cont.	6316 C3	6314 C3
TOC405T75U6B	405T	75	1135	1.15	230/460	60	164	82	G	91.0	92.2	93.0	D	F	40	55	181.5	47.43	1067.6	278	285	Cont.	6316 C3	6314 C3
TOC444T100U6B	444T	100	1138	1.15	230/460	60	223.6	111.8	G	91.0	92.5	93.2	D	F	40	55	247.5	64.67	1442.2	280	300	Cont.	6319 C3	
TOC445T125U6B	445T	125	1139	1.15	230/460	60	279.2	139.6	G	91.0	92.6	93.2	D	F	40	55	308.7	80.67	1803.6	280	300	Cont.	6319 C3	

TXC IEEE-841 Three-Phase Motor Petrochem motor-NEMA premium efficiency

Description

TXC NEMA Premium motors meet or exceed all NEMA Premium requirements for energy efficiency.

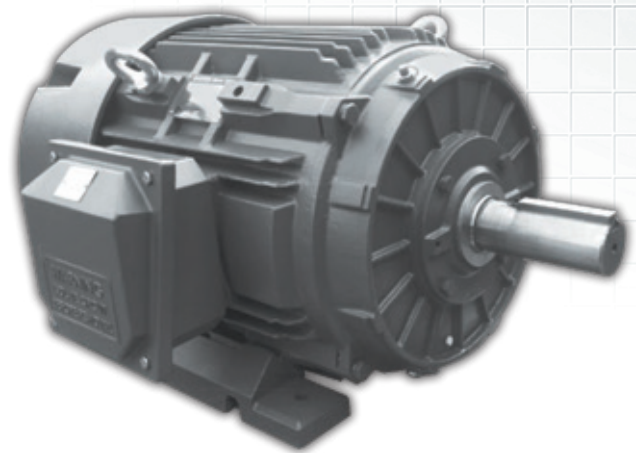
These TXC IEEE 841 NEMA Premium efficiency mill and chemical duty motors are specially suited for pulp and paper mills, Steel mills and applications requiring severe duty long life motors.

Applications

- Pumping applications
- Pulp and paper mills
- Petrochemical

Standard Features

- Three-phase, 2, 4, 6pole, 60Hz
- Voltage: 460 or 575V(3 wire)
- Totally enclosed fan cooled (TEFC)
- Degree of protection: IP55
- Class: "F" insulation ("B" Temperature rise at full load)
- 104°F (40°C) ambient temperature



Service Factor:

- -1.25-up to 100 HP, -1.15-from 125HP and up
- Squirrel cage rotor/ Aluminum die cast
- 143T up to 449T cast iron frame
- All cast iron reinforced construction: frame, endshields, terminal box and fan cover
- F1 mounting
- Stainless steel nameplate
- Labyrinth type oil seal on drive end and opposite drive end
- External paint: Epoxy polyamide enamel, meets 240h salt spray as per ASTM B117-03
- Internal corrosion resistant epoxy finish
- Regreasable ball bearings D.E. and O.D.E
- Grease outlet through the fan cover
- High tensile steel shaft (for frame 404T and up -4 poles and up)
- Fan: Conductive plastic or Bronze
- "T" type stainless steel condensate drain
- Balance quality grade G1
- Solid milled feet
- Foot flatness 0.005 in (0.127 mm)
- Hex-head bolts or socket-head cap screws and organometallic surface lining
- Stainless steel grease inlet extension
- Minimum Bearing life L10h:50,000 hours for directed-connected loads and 26,280 hours belted

Optional Features

- Special voltages
- Specialty designed shaft
- Space heaters
- Additional terminal box
- Drip cover(canopy) for shaft down applications
- Cable glands
- Terminal block
- Flange mounting
- Roller bearings

Notes

All motors supplied with IEEE 841 Test Report ALL TECHTOP motors are energy efficiency verified by UL addition to the DOE

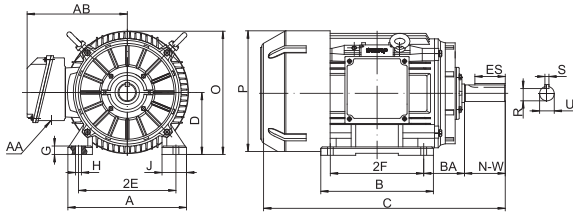


Figure 1 NEMA Foot Mounted

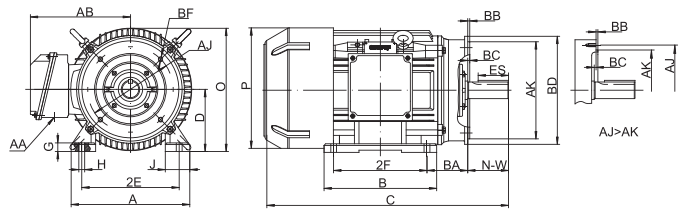


Figure 2 NEMA C-Face Foot Mounted

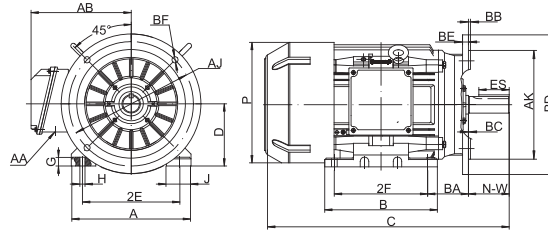


Figure 2 NEMA D-Face Foot Mounted

Overall & Installation Dimensions

Frame	Foot Mounting							Shaft						General										
	A	B	G	J	2E	2F	H	BA	N-W	U	S	R	ES	C	D	O	AA	AB	P					
143T	7	5.12	0.55	1.46	5.5	4	0.34	2.25	2.25	0.875	0.188	0.771	1.41	13.38	3.5	7.01	3/4	5.69	7.25					
145T		6.1				5								14.38										
182T	9	6.1	0.675	1.77	7.5	4.5	0.41	2.75	2.75	1.125	0.25	0.986	1.78	15.9	4.5	8.83	3/4	7.37	9.06					
184T		7.09				5.5								16.9										
213T	10.27	7.48	0.71	1.81	8.5	5.5	0.41	3.5	3.38	1.375	0.312	1.201	2.42	19.1	5.25	10.35	1	8.13	10.63					
215T		8.98				7								20.6										
254T	12.36	10.35	0.63	2.36	10	8.25	0.53	4.25	4	1.625	0.375	1.416	2.91	24.28	6.25	12.44	1-1/4	10.24	12.68					
256T		12.05				10								25.98										
284T	13.8	12.2	0.985	2.95	11	9.5	0.53	4.75	4.62	1.875	0.5	1.591	3.28	27.73	7	13.9	1-1/2	10.91	14.53					
286T		13.7				11								29.23										
284TS	13.8	12.2	0.985	2.95	11	9.5	0.53	4.75	3.25	1.625	0.375	1.416	1.91	26.36	7	13.9	1-1/2	10.91	14.53					
286TS		13.7				11								27.86										
324T	15.4	13	1.12	3.15	12.5	10.5	0.66	5.25	5.25	2.125	0.5	1.845	3.91	30.2	8	15.9	2	13	16.06					
326T		14.5				12								31.7										
324TS	15.4	13	1.12	3.15	12.5	10.5	0.66	5.25	3.75	1.875	0.5	1.591	2.03	28.7	8	15.9	2	13	16.06					
326TS		14.5				12								30.2										
364T	17.17	14.2	1.24	3.15	14	11.25	0.66	5.88	5.88	2.375	0.625	2.021	4.28	33.83	9	18	3	15.3	18.425					
365T		15.2				12.25								34.83										
364TS	17.17	14.2	1.24	3.15	14	11.25	0.66	5.88	3.75	1.875	0.5	1.591	2.03	31.7	9	18	3	15.3	18.425					
365TS		15.2				12.25								32.7										
404T	19.06	17.44	1.33	3.15	16	12.25	0.81	6.62	7.25	2.875	0.75	2.45	5.65	38.75	10	20	3	16.1	20.32					
405T						13.75			4.25											2.125	0.5	1.845	2.78	35.75
405TS						13.75			4.25											2.125	0.5	1.845	2.78	35.75
444T	21.93	20.08	1.315	3.94	18	14.5	0.81	7.5	8.5	3.375	0.875	2.88	6.91	44.52	11	22	3	17.72	22.36					
445T						16.5														14.5	14.5	40.77		
444TS	21.93	20.08	1.315	3.94	18	14.5	0.81	7.5	4.75	2.375	0.625	2.021	3.03	40.77	11	22	3	17.72	22.36					
445TS						16.5														20	53.02			
447T	21.93	28.6	1.315	3.94	18	20	0.81	7.5	8.5	3.375	0.875	2.88	6.91	53.02	11	22	3	17.72	22.36					
449T						25														20	49.27			
447TS	21.93	28.6	1.315	3.94	18	20	0.81	7.5	4.75	2.375	0.625	2.021	3.03	49.27	11	22	3	17.72	22.36					
449TS						25														20	49.27			

Frame	C-Face						D-Face						
	AJ	AK	BB	BC	BD	BF	AJ	AK	BB	BC	BD	BE	BF
143-145T	5.875	4.5	0.16	0.12	6.5	4*3/8-16	10.0	9.0	0.25	0	11	0.5	4*0.53
182-184T	7.25	8.5	0.25	0.12	9	4*1/2-13	10.0	9.0	0.25	0	11	0.5	4*0.53
213-215T	7.25	8.5	0.25	0.25	8.95	4*1/2-13	10.0	9.0	0.25	0	11	0.5	4*0.53
254-256T	7.25	8.5	0.25	0.25	10	4*1/2-13	12.5	11.0	0.25	0	14	0.75	4*0.81
284-286T/TS	9	10.5	0.25	0.25	11.25	4*1/2-13	12.5	11.0	0.25	0	14	0.75	4*0.81
324-326T/TS	11	12.5	0.25	0.25	14	4*5/8-11	16.0	14.0	0.25	0	18	0.75	4*0.81
364-365T/TS	11	12.5	0.25	0.25	14	8*5/8-11	16.0	14.0	0.25	0	18	0.75	4*0.81
404-405T/TS	11	12.5	0.25	0.25	15.5	8*5/8-11	20.0	18.0	0.25	0	22	1	8*0.81
444-449T/TS	14	16	0.25	0.25	18	8*5/8-11	20.0	18.0	0.25	0	22	1	8*0.81

IEEE-841 NEMA Premium Efficiency TEFC Motor Design B Technical Data(60Hz)

HP	Full Load Speed (r/min)	NEMA Frame	Full Load Current		Eff. 100%FL	Power Factor (cos Φ)	Full Load Torque lb-ft	KVA Code	Locked Rotor		BDT (%FL)	Service Factor	Moment of inertia (lb*in ²)	Net weight (lbs)
			I _{460V} (A)	I _{575V} (A)					LRA 230V (A)	LRT (%FL)				
1	3500	143T	1.5	1.2	77	0.83	1.50	K	22	220	300	1.25	0.027765	41.2
	1740	143T	1.5	1.2	85.5	0.75	3.02	J	19	280	300	1.25	0.065733	46.3
	1150	145T	1.7	1.3	82.5	0.68	4.57	H	17	200	270	1.25	0.115330	52.9
1.5	3500	143T	2.0	1.6	84	0.84	2.25	K	32	220	300	1.25	0.037257	41.9
	1740	145T	2.2	1.7	86.5	0.75	4.53	L	34	280	300	1.25	0.088514	54.0
	1175	182T	2.4	1.9	87.5	0.66	6.71	L	35	220	300	1.25	0.428570	93.7
2	3500	145T	2.6	2.1	85.5	0.85	3.00	L	47	220	300	1.25	0.046986	48.5
	1740	145T	2.8	2.2	86.5	0.78	6.04	K	42	280	300	1.25	0.111295	59.5
	1175	184T	3.1	2.5	88.5	0.68	8.94	L	46	220	300	1.25	0.570003	112.5
3	3510	182T	3.6	2.9	86.5	0.9	4.49	K	61	200	280	1.25	0.111533	82.7
	1750	182T	3.8	3.1	89.5	0.82	9.01	K	64	220	300	1.25	0.283103	97.5
	1175	213T	4.4	3.5	89.5	0.72	13.41	K	64	200	250	1.25	1.070477	152
5	3510	184T	5.7	4.6	88.5	0.92	7.48	J	92	180	250	1.25	0.160655	97.0
	1750	184T	6.2	4.9	89.5	0.85	15.01	J	92	185	250	1.25	0.380635	112.9
	1175	215T	6.9	5.5	89.5	0.76	22.36	J	92	190	240	1.25	1.291169	172
7.5	3510	213T	8.5	6.8	89.5	0.92	11.23	H	127	180	250	1.25	0.365210	144
	1750	213T	9.5	7.6	91.7	0.81	22.52	H	127	180	220	1.25	1.010439	163
	1175	254T	10.3	8.2	91	0.75	33.54	H	127	180	220	1.25	2.507588	247
10	3510	215T	11.2	8.9	90.2	0.93	14.97	H	162	180	250	1.25	0.487659	173
	1750	215T	12.6	10.1	91.7	0.81	30.02	H	162	180	220	1.25	1.251302	194
	1175	256T	13.5	10.8	91	0.76	44.72	H	162	180	220	1.25	2.775741	278
15	3530	254T	16.8	13.4	91	0.92	22.33	G	232	180	220	1.25	1.228284	255
	1770	254T	17.3	13.8	92.4	0.88	44.53	G	232	180	220	1.25	2.373037	279
	1180	284T	20.2	16.1	91.7	0.76	66.79	G	232	180	210	1.25	6.627417	397
20	3530	266T	22.6	18.1	91	0.91	29.77	G	290	180	220	1.25	1.326053	276
	1770	256T	22.9	18.3	93	0.88	59.37	G	290	180	220	1.25	2.942328	331
	1180	286T	26.9	21.5	91.7	0.86	89.05	G	290	180	210	1.25	7.719726	443
25	3530	284TS	28.1	22.4	91.7	0.91	37.21	G	365	170	200	1.25	1.801609	354
	1770	284T	30.5	24.4	93.6	0.82	74.21	G	365	180	220	1.25	3.571420	366
	1175	324T	31.9	25.5	93	0.79	111.79	G	365	150	200	1.25	9.608188	501
30	3530	286TS	33.7	26.9	91.7	0.91	44.65	G	435	170	200	1.25	1.997385	381
	1770	286T	35.3	28.2	93.6	0.85	89.05	G	435	180	220	1.25	4.270991	417
	1175	326T	38.2	30.6	93	0.79	134.15	G	435	150	200	1.25	11.709987	680
40	3550	324TS	45.0	36.0	92.4	0.9	59.20	G	580	180	210	1.25	3.684377	509
	1770	324T	45.7	36.6	94.1	0.87	118.74	G	580	180	210	1.25	7.142366	539
	1180	364T	48.0	38.4	94.1	0.83	178.11	G	580	180	200	1.15	19.002091	809
50	3550	326TS	55.3	44.3	93	0.91	74.00	G	725	180	210	1.25	4.854996	593
	1770	326T	56.3	45.0	94.5	0.88	148.42	G	725	180	210	1.25	8.376820	617
	1180	365T	60.0	48.0	94.1	0.83	222.63	G	725	180	200	1.15	22.105074	895
60	3560	364TS	66	53	93.6	0.91	88.55	G	870	140	210	1.15	7.636432	783
	1775	364T	68.8	55	95	0.86	177.61	G	870	160	210	1.15	16.186246	783
	1185	404T	72	57	94.5	0.83	266.03	G	870	180	210	1.15	32.817436	1042
75	3560	365TS	82.5	66	93.6	0.91	110.69	G	1085	160	210	1.15	9.017539	816
	1775	365T	84.6	68	95.4	0.87	222.01	G	1085	160	210	1.15	18.984294	873
	1185	405T	90	72	94.5	0.83	332.54	G	1085	180	210	1.15	38.680498	1122
100	3560	405TS	112	89	94.1	0.89	147.59	G	1450	150	210	1.15	13.680082	1098
	1780	405T	117	93	95.4	0.84	295.18	G	1450	200	210	1.15	27.020820	1180
	1190	444T	119	94	95	0.83	441.53	G	1450	200	210	1.15	83.599710	1678
125	3560	444TS	137	110	95	0.9	184.49	G	1815	160	210	1.15	22.396958	1438
	1785	444T	138	110	95.4	0.89	367.94	G	1815	190	200	1.15	45.156278	1480
	1190	445	147	117	95	0.84	551.91	G	1815	200	210	1.15	93.497646	1775
150	3565	445TS	162	130	95	0.91	221.07	G	2170	160	210	1.15	30.353987	1691
	1785	445T	165	132	95.8	0.89	441.53	G	2170	200	200	1.15	57.265410	1661
	1190	447T	172	138	95.8	0.85	662.29	G	2170	200	210	1.15	111.329830	2130
200	3570	447TS	216	173	95.4	0.91	294.35	G	2900	200	210	1.15	35.120943	2007
	1785	447T	219	175	96.2	0.89	588.70	G	2900	200	200	1.15	71.604484	2055
	1190	449T	230	184	95.8	0.85	883.05	G	2900	200	210	1.15	136.084400	2377
250	3570	449TS	269	215	95.8	0.91	367.94	G	3650	200	210	1.15	45.739570	2262
	1785	449T	273	219	96.2	0.89	735.88	G	3650	200	200	1.15	88.903210	2289

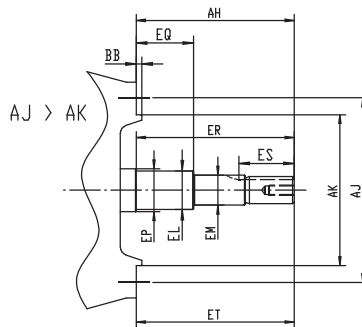
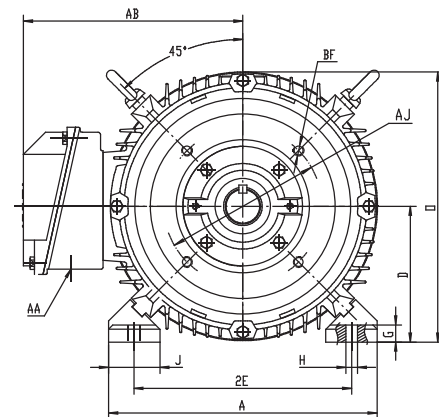
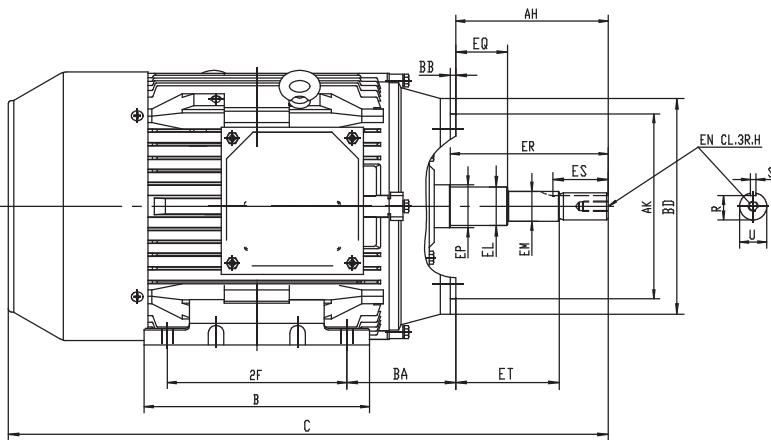
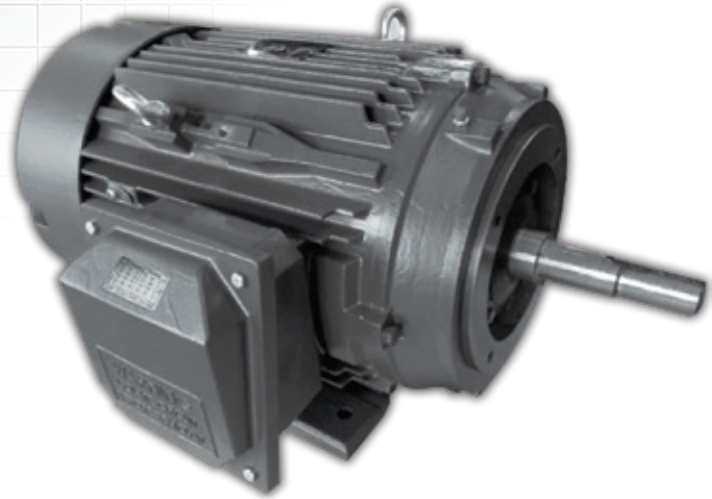
MEMA MOTOR

TFC Series NEMA JM JP Pump Motors

• 1HP thru 100HP

STANDARD FEATURES

- Cast Iron frames
- IP 55 Rated
- MG1 Part 31 for VFD use
- Continuous Duty
- Dual Voltage
- 40°C Ambient Temperature Rating
- Double Lip Oil Seals
- Dual Oversized Bearings
- Multi mount Removable Feet
- Conduit Box is 90° Rotatable
- Stainless Steel Nameplate
- One-Way Brass Condensation Drains
- F1, F2, F3 Field Convertible (Shipped F1)



MEMA MOTOR

JM Pump Motors Overall & Installation Dimensions

Frame	U	AJ	AK	BB	BD max	R	S	EL	EM	EP min	AH	EQ	ER min	ES min	ET	BF			EN		
																No.	Screw SZ	Depth	Screw SZ	Depth	Thread L
143JM-145JM	0.8745 0.8740	5.875	4.500 4.497	0.156 0.125	6.62	0.771 0.756	0.190 0.188	1.156 1.154	1.0000 0.9995	1.156	4.281 4.219	0.640 0.610	4.25	1.65	2.890 2.860	4	3/8-16	0.56	3/8-16	1.12	0.75
182JM-184JM	0.8745 0.8740		4.500 4.497	0.156 0.125		0.771 0.756	0.190 0.188	1.250 1.248	1.0000 0.9995		4.281 4.219	0.640 0.610			2.890 2.860						
213JM-215JM	0.8745 0.8740	7.25	8.500 8.497	0.312 0.250	9.0	0.771 0.756	0.190 0.188	1.250 1.248	1.0000 0.9995	1.75	4.281 4.219	0.640 0.610	4.25	1.65	2.890 2.860	4	1/2-13	0.75	3/8-16	1.12	0.75
254JM-256JM	1.2495 1.2490		8.500 8.497	0.312 0.250		1.112 1.097	0.190 0.250	1.750 1.748	1.3750 1.3745		5.281 5.219	0.640 0.610			3.015 2.985						
284JM-286JM	1.2495 1.2490	11.0	12.500 12.495	0.312 0.250	14.0	1.112 1.097	0.252 0.250	1.750 1.748	1.3750 1.3745	2.125	5.281 5.219	0.645 0.605	5.25	2.53	3.015 2.985	4	5/8-11	0.94	1/2-13	1.5	1.0
324JM-326JM	1.2495 1.2490		12.500 12.495	0.312 0.250		1.112 1.097	0.252 0.250	1.750 1.748	1.3750 1.3745		5.281 5.219	0.645 0.605			3.015 2.985						
364JM-365JM	1.2495 1.2490	11.0	12.500 12.495	0.312 0.250	14.0	1.112 1.097	0.252 0.250	1.750 1.748	1.3750 1.3745	2.125	5.281 5.219	0.645 0.605	5.25	2.53	3.015 2.985	8	5/8-11	0.94	1/2-13	1.5	1.0
404JM-405JM	1.2495 1.2490		12.500 12.495	0.312 0.250		1.112 1.097	0.252 0.250	1.750 1.748	1.3750 1.3745		5.281 5.219	0.645 0.605			3.015 2.985						

Frame	Foot Mounting									General				
	A	B	G	J	2E	2F	H	BA	C	D	O	AA	AB	
143JM	7	5.12	0.55	1.46	5.5	4	0.34	2.25	15.13	3.5	7.01	3/4	5.9	
145JM		6.1				5			16.13					
182JM	9	6.1	0.675	1.77	7.5	4.5	0.41	3.5	17.43	4.5	8.83	3/4	7.17	
184JM		7.09				5.5			18.43					
213JM	10.27	7.48	0.71	1.81	8.5	5.5	0.41	4.25	20.5	5.25	10.35	1/2	7.95	
215JM		8.98				7			22					
254JM	12.36	10.35	0.63	2.36	10	8.25	0.53	4.25	25.3	6.25	12.44	1/4	10.1	
256JM		12.05				10			27.05					
284JM	13.8	12.2	0.985	2.95	11	9.5	0.53	4.75	28.13	7	13.9	1/2	10.83	
286JM		13.7				11			29.53					
324JM	15.4	13	1.12	3.15	12.5	10.5	0.66	5.25	29.84	8	15.9	1/2	13	
326JM		14.5				12			31.34					
364JM	17.17	14.2	1.24	3.15	14	11.25	0.66	5.88	33.47	9	18	1/2	14.2	
365JM		15.2				12.25			34.47					
404JM	19.06	17.44	1.33	3.15	16	12.25	0.81	6.62	35.91	10	20	3	15.3	
405JM						13.75								

JP Pump Motors Overall & Installation Dimensions

Frame	U	AJ	AK	BB	BD max	R	S	EL	EM	EP min	AH	EQ	ER min	ES min	ET	BF			EN		
																No.	Screw SZ	Depth	Screw SZ	Depth	Thread L
143JP-145JP	0.8745 0.8740	5.875	4.500 4.497	0.156 0.125	6.62	0.771 0.756	0.190 0.188	1.156 1.154	1.0000 0.9995	1.156	7.343 7.281	1.578 1.548	7.312	1.65	5.952 5.922	4	3/8-16	0.56	3/8-16	1.12	0.75
182JP-184JP	0.8745 0.8740		4.500 4.497	0.156 0.125		0.771 0.756	0.190 0.188	1.250 1.248	1.0000 0.9995		7.343 7.281	1.578 1.548			5.952 5.922						
213JP-215JP	1.2495 1.2490	7.25	8.500 8.497	0.312 0.250	9.0	1.112 1.097	0.252 0.250	1.750 1.748	1.3750 1.3745	1.75	8.156 8.094	2.39 2.36	8.125	1.65	5.89 5.86	4	1/2-13	0.75	3/8-16	1.12	0.75
254JP-256JP	1.2495 1.2490		8.500 8.497	0.312 0.250		1.112 1.097	0.252 0.250	1.750 1.748	1.3750 1.3745		8.156 8.094	2.395 2.36			5.89 5.86						
284JP-286JP	1.2495 1.2490	11.0	12.500 12.495	0.312 0.250	14.0	1.112 1.097	0.252 0.250	1.750 1.748	1.3750 1.3745	2.125	8.156 8.094	2.395 2.360	8.125	2.53	5.895 5.855	4	5/8-11	0.94	1/2-13	1.5	1.0
324JP-326JP	1.2495 1.2490		12.500 12.495	0.312 0.250		1.112 1.097	0.252 0.250	1.750 1.748	1.3750 1.3745		8.156 8.094	2.395 2.355			5.895 5.855						
364JP-365JP	1.6245 1.6240	11.0	12.500 12.495	0.312 0.250	14.0	1.416 1.401	0.377 0.375	2.125 2.123	1.7500 1.7495	2.5	8.156 8.094	2.395 2.356	8.125	2.53	5.895 5.855	4	5/8-11	0.94	1/2-13	1.5	1.0

Frame	Foot Mounting									General				
	A	B	G	J	2E	2F	H	BA	C	D	O	AA	AB	
143JP	7	5.12	0.55	1.46	5.5	4	0.34	2.25	18.19	3.5	7.01	3/4	5.9	
145JP		6.1				5			19.19					
182JP	9	6.1	0.675	1.77	7.5	4.5	0.41	3.5	20.49	4.5	8.83	3/4	7.17	
184JP		7.09				5.5			21.49					
213JP	10.27	7.48	0.71	1.81	8.5	5.5	0.41	4.25	24.38	5.25	10.35	1/2	7.95	
215JP		8.98				7			25.88					
254JP	12.36	10.35	0.63	2.36	10	8.25	0.53	4.25	28.18	6.25	12.44	1/4	10.1	
256JP		12.05				10			29.93					
284JP	13.8	12.2	0.985	2.95	11	9.5	0.53	4.75	31.01	7	13.9	1/2	10.83	
286JP		13.7				11			32.51					
324JP	15.4	13	1.12	3.15	12.5	10.5	0.66	5.25	32.72	8	15.9	1/2	13	
326JP		14.5				12			34.22					
364JP	17.17	14.2	1.24	3.15	14	11.25	0.66	5.88	36.35	9	18	1/2	14.2	
365JP		15.2				12.25			37.35					

MEMA MOTOR

JM-JP Pump Motors Technical Data

HP	Full Load Speed (r/min)	NEMA Frame	Full Load Current			Eff. 100%FL	Power Factor (cosΦ)	Full Load Torque lbf-ft	KVA Code	Locked Rotor		BDT (%FL)	Service Factor	Moment of inertia (lb·ft ²)
			I _L 230V (A)	I _L 460V (A)	I _L 575V (A)					LRA 230V (A)	LRT (%FL)			
1	3450	143T	3.04	1.52	1.22	77	0.8	1.52	L	23	241	326	1.25	0.0278
	1735	143T	3.00	1.50	1.20	85.5	0.73	3.03	J	19	224	270	1.25	0.0657
	1150	145T	3.39	1.69	1.36	82.5	0.67	4.57	H	17	213	248	1.25	0.1153
1.5	3450	143T	4.00	2.00	1.61	84	0.83	2.28	K	32	312	346	1.25	0.0373
	1715	145T	4.33	2.16	1.73	86.5	0.75	4.60	L	34	311	351	1.25	0.0885
	1150	182T	4.79	2.40	1.92	87.5	0.67	6.85	L	35	256	362	1.25	0.4286
2	3450	145T	5.15	2.58	2.06	85.5	0.85	3.05	L	47	283	362	1.25	0.0470
	1730	145T	5.55	2.78	2.22	86.5	0.78	6.07	K	42	282	304	1.25	0.1113
	1150	184T	6.22	3.11	2.49	88.5	0.68	9.14	L	46	270	346	1.25	0.5700
3	3510	182T	7.30	3.65	2.92	86.5	0.89	4.49	K	62	462	328	1.25	0.1115
	1755	182T	7.95	3.97	3.18	89.5	0.79	8.98	L	71	288	384	1.25	0.2831
	1170	213T	8.84	4.42	3.54	89.5	0.71	13.47	L	68	253	336	1.25	1.0268
5	3510	184T	11.76	5.88	4.70	88.5	0.9	7.48	L	121	275	382	1.25	0.1607
	1745	184T	12.60	6.30	5.04	89.5	0.83	15.05	K	108	253	362	1.25	0.3669
	1165	215T	13.77	6.88	5.51	89.5	0.76	22.55	K	105	241	318	1.25	1.2912
7.5	3520	213T	17.24	8.62	6.90	89.5	0.91	11.19	J	149	213	319	1.25	0.3479
	1750	213T	18.23	9.12	7.29	91.7	0.84	22.52	L	181	264	383	1.25	0.9082
	1170	254T	20.31	10.15	8.12	91	0.76	33.68	J	143	214	253	1.25	2.0700
10	3520	215T	22.57	11.28	9.03	90.2	0.92	14.93	K	214	245	346	1.25	0.4533
	1750	215T	24.00	12.00	9.61	91.7	0.85	30.02	L	248	274	383	1.25	1.1149
	1170	256T	26.73	13.36	10.69	91	0.77	44.91	J	188	204	249	1.25	2.6008
15	3540	254T	35.1	17.54	14.0	91	0.88	22.26	L	345	238	363	1.25	1.2283
	1760	254T	36.2	18.10	14.5	92.4	0.84	44.78	K	329	269	344	1.25	2.2164
	1175	284T	40.3	20.15	16.1	91.7	0.76	67.07	M	410	281	268	1.25	5.7264
20	3530	256T	45.2	22.61	18.1	91	0.91	29.77	K	425	289	321	1.25	1.3261
	1760	256T	45.8	22.88	18.3	93	0.88	59.71	K	406	255	315	1.25	2.7824
	1175	286T	51.1	25.53	20.4	91.7	0.8	89.43	L	481	280	338	1.25	6.6386
25	3550	284TS	60.1	30.03	24.0	91.7	0.85	37.00	M	664	322	445	1.25	1.8016
	1770	284T	58.8	29.42	23.5	93.6	0.85	74.21	K	551	275	356	1.25	3.5714
	1180	324T	61.4	30.69	24.6	93	0.82	111.32	M	670	313	356	1.25	9.3474
30	3550	286TS	70.4	35.21	28.2	91.7	0.87	44.40	L	725	286	363	1.25	1.9359
	1770	286T	69.0	34.49	27.6	93.6	0.87	89.05	K	618	276	327	1.25	4.0399
	1180	326T	72.8	36.39	29.1	93	0.83	133.58	M	833	309	408	1.25	10.6666
40	3560	324TS	90.1	45.04	36.0	92.4	0.9	59.04	H	669	220	240	1.25	3.3692
	2770	324T	97.1	48.54	38.8	94.1	0.82	75.87	L	1004	373	343	1.25	7.1424
	1180	364T	93.6	46.82	37.5	94.1	0.85	178.11	J	778	264	287	1.15	15.8991
50	3560	326TS	113.1	56.56	45.2	93	0.89	73.79	H	853	276	291	1.25	4.0145
	1770	326T	118.0	58.98	47.2	94.5	0.84	148.42	K	1125	335	331	1.25	8.3396
	1180	365T	119.9	59.94	48.0	94.1	0.83	222.63	H	849	224	245	1.15	18.2263
60	3560	364TS	136.4	68.20	54.6	93.6	0.88	88.55	L	1451	431	359	1.15	7.2912
	1775	364T	135.9	67.97	54.4	95	0.87	177.61	L	1478	353	320	1.15	16.1862
	1185	404T	141.5	70.77	56.6	94.5	0.84	266.03	J	1113	238	242	1.15	28.8796
75	3560	365TS	166.7	83.36	66.7	93.6	0.9	110.69	K	1651	362	328	1.15	8.5000
	1775	365T	167.3	83.65	66.9	95.4	0.88	222.01	L	1727	325	378	1.15	18.9957
	1185	405T	172.8	86.41	69.1	94.5	0.86	332.54	H	1279	215	247	1.15	34.1302
100	3570	405TS	218.7	109.34	87.5	94.1	0.91	147.18	K	2110	288	306	1.15	11.8424
	1780	405T	230.9	115.47	92.4	95.4	0.85	295.18	K	2240	336	291	1.15	20.8694

TDC Series NEMA Premium Efficiency 3-Phase Motors

7.5HP thru 250HP

- 254T thru 449T
- Cast Iron ODP

FEATURES

- Continuous Duty 40°C Ambient
- Cast Iron frames
- Ball Bearings
- IP23 Protection

APPLICATIONS

- Pumps
- Compressors
- Fans
- Machine Tools
- Other General Purpose Three Phase Applications

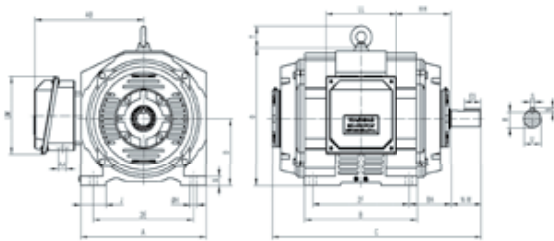
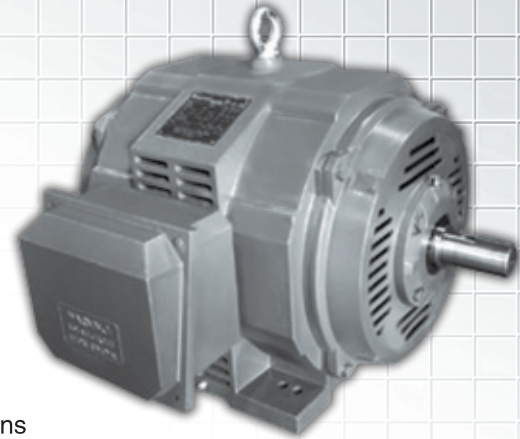


Figure 1 Foot Mounted

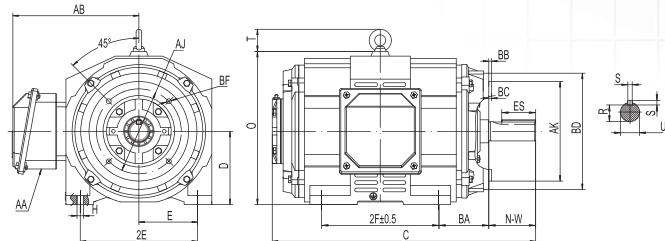


Figure 2 C-Face, Foot Mounted

Frame	FootMounting				Shaft					General				C-Face							
	2E	2F	H	BA	N-W	U	S	R	ES	C	D	O	T	AA	AB	AJ	AK	BB	BC	BD	BF
254TC	10	8.25	0.53	4.25	4	1.625	0.375	1.416	2.91	22.46	6.25	13.06	2.047	1-1/4	10.83	7.25	8.5	0.25	0.25	10	4x1/2-13
256TC		10		4.75																	
284TSC	11	9.5	0.53	4.75	3.25	1.625	0.375	1.416	1.91	23.48	7	14.87	2.441	1-1/2	11.62	9	10.5	0.25	0.25	11.25	4x1/2-13
286TSC		11																			
284TC		9.5																			
286TC		11																			
324TSC	12.5	10.5	0.66	5.25	3.75	1.875	0.5	1.591	2.03	26.05	8	16.39	2.441	2	13.62	11	12.5	0.25	0.25	14	4x5/8-11
326TSC		12																			
324TC		10.5																			
326TC		12																			
364TSC	14	11.25	0.66	5.88	3.75	1.875	0.5	1.591	2.03	27.29	9	19	2.835	3	15.23	11	12.5	0.25	0.25	14	8x5/8-11
365TSC		12.25																			
364TC		11.25																			
365TC		12.25																			
404TSC	16	12.25	0.81	0.62	4.25	2.215	0.5	1.845	2.78	30.86	10	20.95	3.465	3	16.72	11	12.5	0.25	0.25	15.5	8x5/8-11
405TSC		13.75																			
404TC		12.25																			
405TC		13.75																			
444TSC	18	14.5	0.81	7.5	4.75	2.375	0.625	2.021	3.03	35.72	11	23.09	3.465	3	18.31	14	16	0.25	0.25	18	8x5/8-11
445TSC		16.5																			
444TC		14.5																			
445TC		16.5																			
447TSC		20																			
449TSC		25																			
447TC		20																			
449TC		25																			

NEMA MOTOR

T DC Series NEMA Motor Installation Dimensions

NEMA Frames	MOUNTING				A	B	C	D	G	J	O	T
	2E	2F	H	BA								
254T	10.00	8.25	0.53	4.25	12.44	12.00	22.46	6.25	0.78	2.36	13.06	2.047
256T		10.00										
284T	11.00	9.50	0.53	4.75	14.17	13.03	24.85	7.00	0.90	3.15	14.87	2.441
286T		11.00										
284TS		9.50										
286TS		11.00										
324T	12.50	10.50	0.66	5.25	15.59	14.06	27.55	8.00	1.11	3.15	16.39	2.441
326T		12.00										
324TS		10.50										
326TS		12.00										
364T	14.00	11.25	0.66	5.88	18.03	14.92	29.42	9.00	1.26	3.54	19.00	2.835
365T		12.25										
364TS		11.25										
365TS		12.25										
404T	16.00	12.25	0.81	6.62	19.92	16.97	33.86	10.00	1.34	3.74	20.95	3.465
405T		13.75										
404TS		12.25										
405TS		13.75										
444T	18.00	14.50	0.81	7.50	22.05	20.08	39.47	11.00	1.43	4.33	23.09	3.465
445T		16.50										
444TS		14.50										
445TS		16.50										
447T	18.00	20.00	0.81	7.50	22.05	28.58	47.97	11.00	1.43	4.33	23.09	4.134
449T		25.00										
447TS		20.00										
449TS		25.00										

NEMA Frames	KEYWAY			SHAFT		TERAINAL BOX					BEARINGS										
	S	R	ES	N-W	U	AB	HH	LL	LM	AA	D.E	N.D.E									
254T	0.375	1.416	2.91	4.0	1.625	10.83	5.77	6.97	7.31	1-1/4	6309 C3										
256T																					
284T	0.5	1.591	3.28	4.62	1.875	11.62	6.77	6.97	7.31	1-1/2	6311 C3										
286T																					
284TS																					
286TS																					
324T	0.5	1.845	3.91	5.25	2.125	13.62	6.86	8.78	9.23	2	6312 C3										
326T																					
324TS																					
326TS																					
364T	0.625	2.021	4.28	5.88	2.375	15.23	6.83	10.36	9.23	3	6313 C3										
365T																					
364TS																					
365TS																					
404T	0.75	2.45	5.65	7.25	2.875	16.72	8.28	10.44	11.56	3	6316C3	6314C3									
405T																					
404TS											0.5	1.845	2.78	4.25	2.125	18.31	9.39	12.72	14.58	3	6314C3
405TS																					
444T	0.875	2.88	6.91	8.5	3.375	18.31	9.39	12.72	14.58	3	6319C3	6316C3									
445T																					
444TS											0.625	2.021	3.03	4.75	2.375	18.31	3.9	12.72	14.58	3	6316C3
445TS																					
447T	0.875	2.88	6.91	8.5	3.375	18.31	3.9	12.72	14.58	3	6319C3	6316C3									
449T																					
447TS											0.625	2.021	3.03	4.75	2.375	18.31	3.9	12.72	14.58	3	6316C3
449TS																					

*Dimensions in inches.

T DC Series NEMA Premium Efficiency ODP Motor Technical Data-Design B (60Hz)

HP	Full Load Speed (r/min)	NEMA Frame	Full Load Current			Eff. 100%FL	Power Factor (cosΦ)	Full Load Torque lbf-ft	KVA Code	Locked Rotor		BDT (%FL)	Service Factor	W.T (lbs)
			I _L 230V (A)	I _L 460V (A)	I _L 575V (A)					LRA 230V (A)	LRT (%FL)			
7.5	1170	254T	20.49	10.24	8.20	90.2	0.76	33.68	J	137	200	250	1.15	242.00
10	1170	256T	26.52	13.26	10.61	91.7	0.77	44.91	J	185	220	320	1.15	313.00
15	3540	254T	35.39	17.69	14.16	90.2	0.88	22.26	K	310	240	300	1.15	249.00
	1760	254T	35.96	17.98	14.38	93.0	0.84	44.78	J	300	260	330	1.15	273.00
	1175	284T	40.30	20.15	16.12	91.7	0.76	67.07	L	360	280	330	1.15	404.00
20	3530	256T	45.23	22.61	18.09	91.0	0.91	29.77	H	350	240	240	1.15	315.00
	1760	256T	45.76	22.88	18.31	93.0	0.88	59.71	J	400	280	310	1.15	370.00
	1175	286T	50.67	25.33	20.27	92.4	0.8	89.43	J	400	240	330	1.15	438.00
25	3550	284TS	60.06	30.03	24.02	91.7	0.85	37.00	H	415	280	330	1.15	394.00
	1770	284T	58.84	29.42	23.54	93.6	0.85	74.21	H	425	250	350	1.15	406.00
	1180	324T	61.39	30.69	24.56	93	0.82	111.32	J	460	300	380	1.15	546.00
30	3550	286TS	70.42	35.21	28.17	91.7	0.87	44.40	H	525	260	360	1.15	409.00
	1770	286T	68.62	34.31	27.45	94.1	0.87	89.05	H	520	260	360	1.15	431.00
	1180	326T	72.31	36.16	28.93	93.6	0.83	133.58	H	500	280	370	1.15	556.00
40	3560	324TS	90.07	45.04	36.03	92.4	0.9	59.04	H	650	270	320	1.15	530.00
	1770	324T	97.07	48.54	38.83	94.1	0.82	118.74	J	720	300	340	1.15	584.00
	1180	364T	93.65	46.82	37.46	94.1	0.85	178.11	H	700	250	270	1.15	736.50
50	3560	326TS	113.12	56.56	45.25	93.0	0.89	73.79	H	850	280	300	1.15	541.00
	1770	326T	117.95	58.98	47.18	94.5	0.84	148.42	J	960	300	340	1.15	606.00
	1180	365T	119.88	59.94	47.95	94.1	0.83	222.63	H	800	280	340	1.15	792.00
60	3560	364TS	136.41	68.20	54.56	93.6	0.88	88.55	H	1000	300	330	1.15	772.00
	1775	364T	135.94	67.97	54.38	95	0.87	177.61	H	1052	280	300	1.15	793.80
	1185	404T	141.54	70.77	56.62	94.5	0.84	266.03	H	1000	200	240	1.15	1019.00
75	3560	365TS	166.72	83.36	66.69	93.6	0.9	110.69	H	1150	300	330	1.15	842.00
	1775	365T	168.00	84.00	67.20	95	0.88	222.01	H	1183	280	370	1.15	863.00
	1185	405T	172.81	86.41	69.13	94.5	0.86	332.54	H	1200	200	240	1.15	1089.00
100	3570	405TS	219.85	109.93	87.94	93.6	0.91	147.18	H	1675	300	300	1.15	1025.00
	1780	405T	230.93	115.47	92.37	95.4	0.85	295.18	H	1700	280	320	1.15	1030.00
	1180	444T	229.21	114.60	91.68	95	0.86	445.27	H	1620	180	200	1.15	1656.00
125	3575	444TS	276.39	138.20	110.56	94.1	0.9	183.71	J	2200	300	400	1.15	1504.00
	1780	444T	278.82	139.41	111.53	95.4	0.88	368.97	J	2260	300	350	1.15	1546.00
	1180	445T	286.51	143.25	114.60	95	0.86	556.59	J	2230	175	200	1.15	1797.00
150	3575	445TS	331.67	165.84	132.67	94.1	0.9	220.45	H	2400	250	230	1.15	1610.00
	1780	445T	333.19	166.60	133.28	95.8	0.88	442.77	H	2430	270	290	1.15	1698.00
	1180	447T	340.94	170.47	136.38	95.8	0.86	667.90	H	2480	160	200	1.15	1921.00
200	3575	447TS	438.04	219.02	175.22	95	0.9	293.94	H	3350	200	230	1.15	1738.00
	1780	447T	439.26	219.63	175.71	95.8	0.89	590.36	H	3420	275	200	1.15	1934.00
	1180	449T	451.25	225.62	180.50	95.4	0.87	890.54	H	3360	160	200	1.15	2123.00
250	3575	449TS	547.55	273.78	219.02	95	0.9	367.42	H	4100	200	200	1.15	1954.00
	1780	449T	549.08	274.54	219.63	95.8	0.89	737.95	H	4150	200	210	1.15	2220.00

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