

TL 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

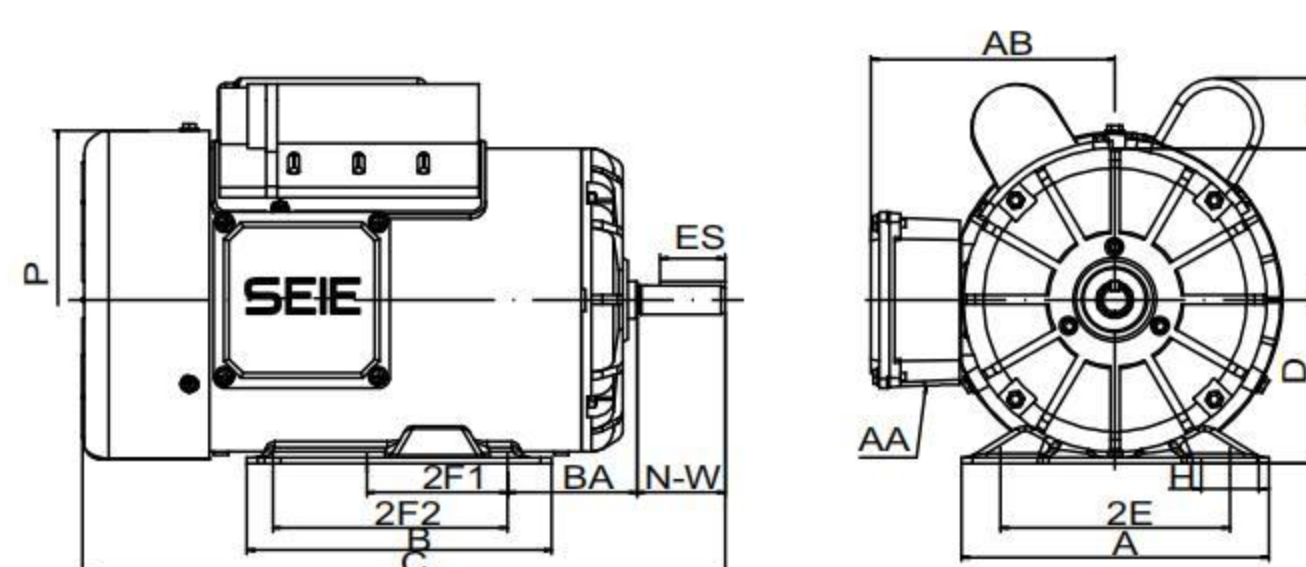


Figure 1 48 thru 140T (Foot Mounting)

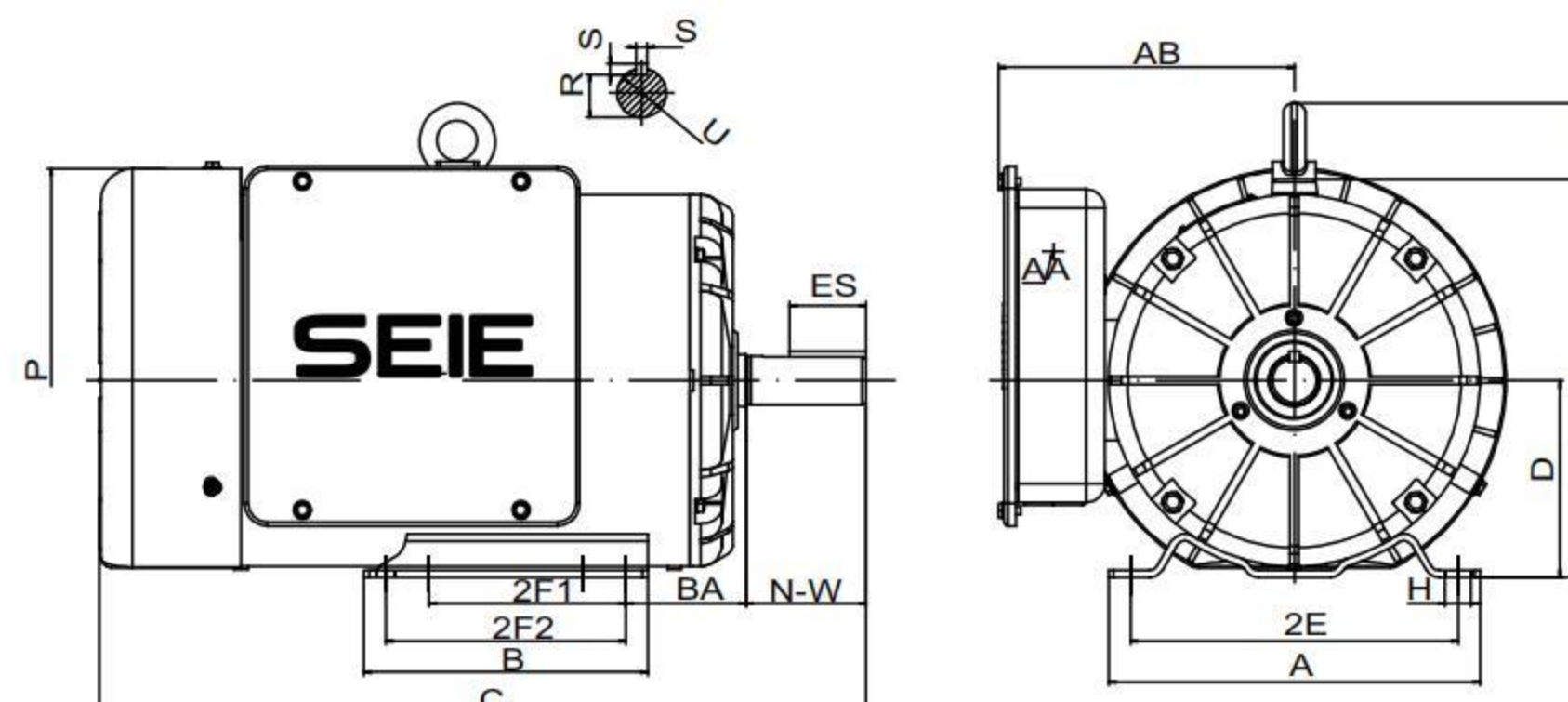


Figure 2 180T, 210T (Foot Mounting)

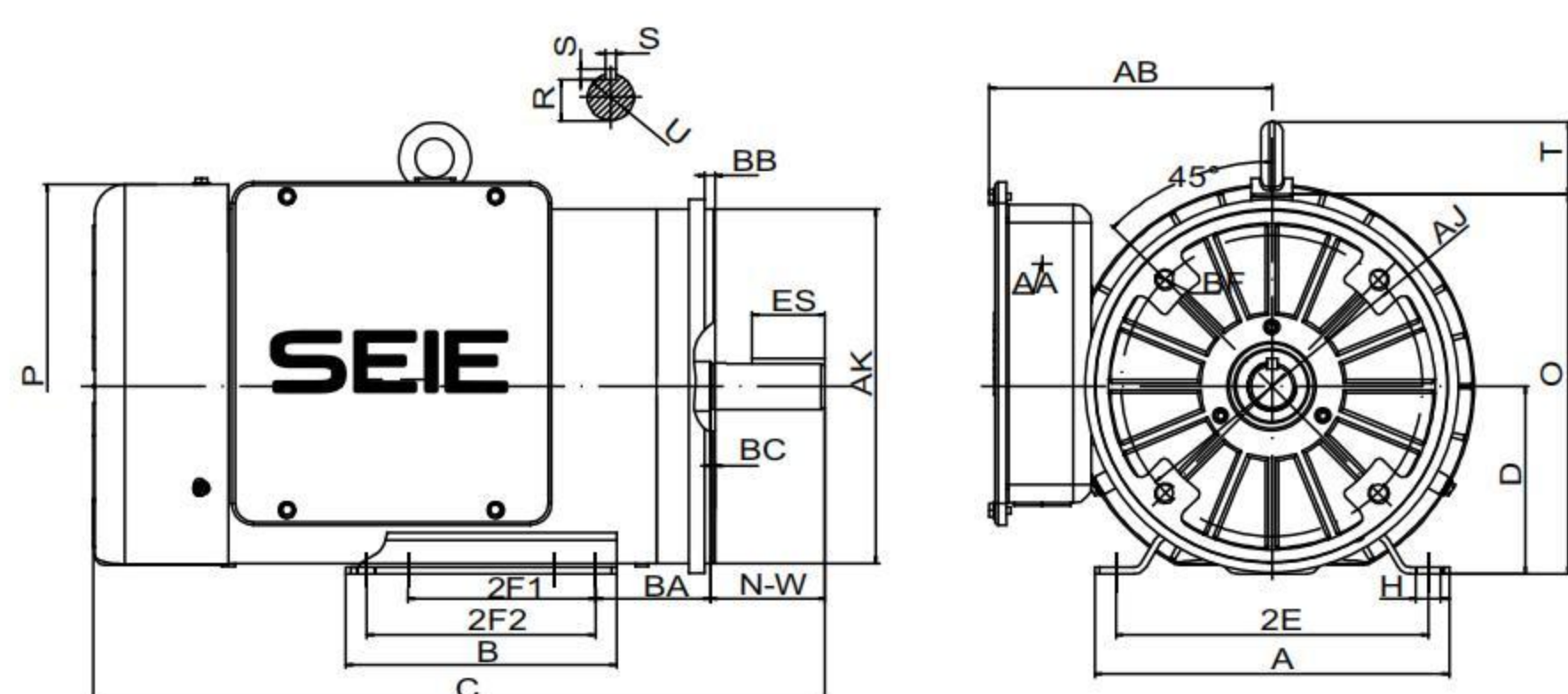


Figure 4 180T, 210T (C-Face)

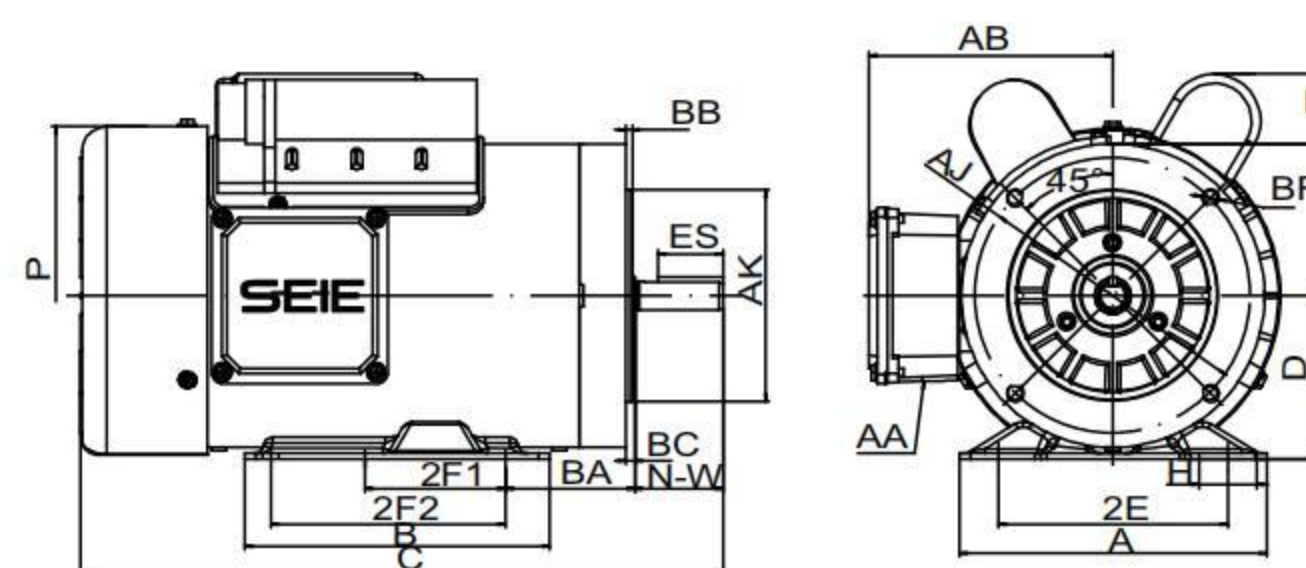


Figure 3 48 thru 140T (C-Face)

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	2.25	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	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	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	1.1/1.33	7.15	10.65	1.75	11.36	6208	6206	7.25	8.5	0.25	0.25	4×1/2-13UNC

NEMA 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	ll/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
1740	180T	82.5	92	12.6	8.90	0.3559	H	7.0	3.5	2.4	1.15	16.2	
5	3490	180T	82.0	98	20.0	7.46	0.2017	H	7.0	3.5	2.0	1.15	17.6
	1740	180T	84.0	94	20.4	14.97	0.4746	G	6.4	3.2	2.2	1.15	17.6
7.5	3510	210T	84.5	98	28.9	11.03	0.4508	H	7.6	4.2	2.2	1.15	19.9
	1750	210T	82.0	94	31.1	22.13	0.9017	H	7.0	4	2.4	1.15	19.9
10	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