High Efficiency Performance Data

TEFC & TENV

Premium Efficiency

JM Motors

Picker Motors

HP	Frame	Full Load RPM	Service Factor	Efficiency %	Power Factor	Amps @ 460 V Full Load	Amps @ 460 V Locked Rotor	Full Load Torque (lbft)	Locked Rotor Torque %	Pull Out Torque %	Approx Weight (lbs)
1/4	56C	1725	1.15	82.5	0.75	0.4	2.3	0.8	220	319	27
1/3	56C	3460	1.15	74.0	0.85	0.6	4.0	0.5	300	409	26
	56C	1725	1.15	82.5	0.71	0.6	3.7	1.0	288	388	27
1/2	56C	3460	1.15	77.0	0.88	0.8	5.5	0.7	275	364	31
	56C	1725	1.15	82.5	0.76	0.8	4.8	1.5	250	347	28
	56C	1155	1.15	80.0	0.63	0.9	6.5	2.2	260	270	31
3/4	56C	3460	1.15	80.0	0.71	1.1	7.5	1.1	241	303	33
	56C	1725	1.15	82.5	0.78	1.1	7.2	2.2	227	320	32
	143TC	1155	1.15	79.0	0.65	1.3	9.0	3.3	250	276	32
1	56C	3470	1.15	80.0	0.72	1.4	10.0	1.5	307	369	37
	56C	1740	1.15	84.0	0.78	1.5	9.8	3.0	240	331	37
	145TC	1165	1.15	80.0	0.68	1.8	12.3	4.4	250	264	43
1 1/2	145TC	3480	1.15	84.0	0.74	2.0	15.6	2.3	267	326	44
	145TC	1740	1.15	84.0	0.83	2.0	13.6	4.4	233	298	44
	182TC	1170	1.15	85.5	0.7	2.5	17.4	6.6	250	270	80
2	145TC	3480	1.15	84.0	0.91	2.4	18.9	2.9	261	332	51
	145TC	1740	1.15	84.0	0.83	2.6	19.8	5.9	247	323	54
	184TC	1175	1.15	86.5	0.71	3.1	21.0	8.8	245	248	84
3	182TC	3535	1.15	85.5	0.89	4.1	28.0	4.4	208	269	91
	182TC	1765	1.15	87.5	0.81	4.0	29.0	8.8	225	324	84
	213TC	1200	1.15	86.5	0.72	4.8	31.2	17.6	230	300	160
5	184TC	3525	1.15	87.5	0.91	5.9	46.0	7.3	216	255	109
	184TC	1765	1.15	87.5	0.86	6.3	40.5	14.7	202	256	101
	215TC	1200	1.15	86.5	0.73	8.0	48.8	29.4	232	270	195
7.5	213TC	3520	1.15	88.5	0.85	9.4	63.0	11.1	200	265	161
	213TC	1755	1.15	89.5	0.85	9.3	63.0	22.0	220	383	156
10	215TC	3525	1.15	89.5	0.87	12.2	81.0	14.7	200	287	180
	215TC	1760	1.15	89.5	0.85	12.2	81.0	29.3	232	389	170
15	254TC	3540	1.15	91.0	0.9	18.5	116.0	21.9	200	260	237
	254TC	1765	1.15	92.4	0.88	18.5	116.0	43.8	200	250	254
20	256TC	6540	1.15	91.0	0.9	23.0	145.0	29.1	200	250	289
	256TC	1765	1.15	93.0	0.88	24.5	145.0	58.3	200	250	301
1/4	56C	1725	1.15	82.5	0.75	0.40	2.28	0.8	220	319	27
1/3	56C	3460	1.15	74.0	0.85	0.5	4.0	0.5	298	407	27
	56C	1725	1.15	82.5	0.71	0.6	3.7	1.0	288	388	27
1/2	56C	3460	1.15	77.0	0.88	0.8	5.5	0.7	275	364	31
	56C	1725	1.15	82.5	0.76	0.8	4.8	1.5	250	347	28
	56C	1155	1.15	80.0	0.63	0.9	6.5	2.2	260	270	30
3/4	56C	3460	1.15	80.0	0.90	1.1	7.5	1.1	241	303	35
	56C	1725	1.15	82.5	0.78	1.1	7.2	2.2	227	320	31
	143TC	1155	1.15	79.0	0.65	1.3	9.0	3.3	250	276	35
1	56C	3460	1.15	72.0	0.67	1.4	10.0	1.5	307	369	37
	56C	1725	1.15	72.0	0.72	1.5	9.8	3.0	240	331	36
1 1/2	145TC	1725	1.15	72.0	0.67	1.8	12.3	4.4	250	264	43
PICKER DUTY MOTOR - TEFC FOOT MOUNT								** F.O. Conduit Location			
3	145T	1745	1.15	87.5	0.81	4.0	32.0	8.9	270	383	64
ADDITIONAL RATING											
1	56HCZ	1200	1.15	80.0	0.68	1.75	12.3	4.4	250	264	44
2	56HCZ	3600	1.15	80.0	0.72	1.4	10	1.5	307	369	51
	56HCZ	1740	1.15	84.0	0.83	2.6	19.8	5.9	247	323	54
3	56HCZ	1800	1.15	85.5	0.89	4.05	28	4.4	208	269	65

JM MOTORS ARE AVAILABLE IN 2 POLE AND 4 POLE

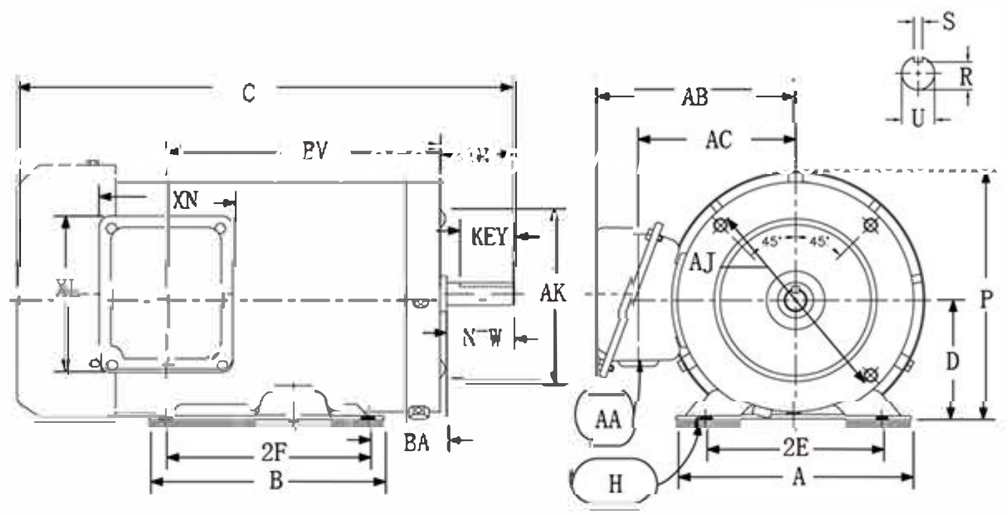
NEMA Premium

Premium Efficiency Performance Data

FEATURES

- ★ Three Phase, 50/60Hz, 208-230/460V
- ★ NEMA Design B or C, Squirrel Cage
- ★ Premium Efficiency
- ★ TEFC, TENV Class F Insulation
- ★ 40℃ Ambient Continuous Duty
- ★ T-Drain plug included

HP	Frame	Full Load RPM	Service Factor	Efficiency %	Power Factor	Amps @ 460 V		Full Load Torque (lb-ft)	Locked Rotor Torque % FLT	Pull Out Torque % FLT	Approx Weight (lbs)	Enclos.
						Full Load	Locked Rotor					
1/4	56C	1725	1.15	82.5	0.75	0.4	2.3	0.11	219.78	330	28	TEFC
1/3	56C	3460	1.15	78.0	0.82	0.5	3.8	0.11	220	409	32	TEFC
	56C	1725	1.15	82.5	0.71	0.6	3.7	0.15	295	405	28	TEFC
1/2	56C	3460	1.15	79.0	0.86	0.8	5.2	0.12	225	339	33	TEFC
	56C	1725	1.15	82.5	0.76	0.8	4.6	0.23	260	380	29	TEFC
	56C	1155	1.15	80.0	0.63	0.9	5.5	0.3	260	310	33	TEFC
3/4	56C	3460	1.15	81.0	0.85	1.0	7.2	0.17	230	320	35	TEFC
	56C	1725	1.15	82.5	0.78	1.1	7.0	0.34	270	385	34	TEFC
	143TC	1155	1.15	79.0	0.65	1.2	6.0	0.51	260	330	34	TEFC
1	56C	3470	1.15	80.0	0.83	1.4	9.8	0.23	235	325	39	TEFC
	56C	1740	1.15	85.5	0.78	1.4	9.6	0.46	235	310	39	TEFC
	145TC	1165	1.15	82.5	0.71	1.6	12.0	0.68	258	312	45	TEFC
1 1/2	145TC	3480	1.15	84.0	0.89	1.8	14.8	0.34	265	330	46	TEFC
	145TC	1740	1.15	86.5	0.82	1.9	13.6	0.68	245	303	47	TEFC
	182TC	1170	1.15	87.5	0.64	2.5	16.5	1.0	255	290	84	TEFC
2	145TC	3480	1.15	85.5	0.91	2.4	18.2	0.46	260	335	54	TEFC
	145TC	1740	1.15	86.5	0.81	2.6	18.8	0.92	248	332	57	TEFC
	184TC	1175	1.15	88.5	0.66	3.1	20.2	1.36	250	290	88	TEFC
3	182TC	3535	1.15	86.5	0.88	3.6	26.6	0.68	240	282	70	TEFC
	182TC	1765	1.15	89.5	0.81	3.8	26.8	1.36	245	290	77	TEFC
5	184TC	3525	1.15	88.5	0.89	5.8	44.3	1.13	236	275	114	TEFC
	184TC	1765	1.15	89.5	0.73	7.0	49.2	2.27	240	285	106	TEFC
7.5	213TC	3520	1.15	89.5	0.85	9.0	62.8	1.72	232	275	169	TEFC
	213TC	1755	1.15	91.7	0.8	9.5	66.5	3.41	238	290	164	TEFC
10	215TC	3525	1.15	90.2	0.85	12.0	78.2	2.26	210	260	189	TEFC
	215TC	1760	1.15	91.7	0.83	12.2	79.5	4.54	235	280	179	TEFC
15	254TC	3540	1.15	91.0	0.85	18.5	116.0	3.4	220	270	249	TEFC
	254TC	1765	1.15	92.4	0.82	18.5	116.0	6.8	230	265	267	TEFC
20	256TC	6540	1.15	91.0	0.85	23.0	145.0	4.5	220	270	281	TEFC
	256TC	1765	1.15	93.0	0.82	24.5	145.0	6.8	230	265	316	TEFC



HP	RPM	Frame	Frame Mounting				Conduit Box					Motor Dimensions						Shaft Extension, Key Seat					C-Flange	
			E	2F	H	BA	AA	AB	AC	XL	XN	A	B	C	D	G	P	N-W	U	R	S	KEY	AJ	AK
1/3	3600	56C	2.44	3	1.22*0.34	2.75	0.86	5.75	4.25	4.72	3.8	6.5	6.5	11.6	3.5	0.118	6.5	1.88	0.625	0.517	0.188	1.41	5.875	4.5
	1800	56C	2.44	3	1.22*0.34	2.75	0.86	5.75	4.25	4.72	3.8	6.5	6.5	11.6	3.5	0.118	6.5	1.88	0.625	0.517	0.188	1.41	5.875	4.5
1/2	3600	56C	2.44	3	1.22*0.34	2.75	0.86	5.75	4.25	4.72	3.8	6.5	6.5	11.6	3.5	0.118	6.5	1.88	0.625	0.517	0.188	1.41	5.875	4.5
	1800	56C	2.44	3	1.22*0.34	2.75	0.86	5.75	4.25	4.72	3.8	6.5	6.5	11.6	3.5	0.118	6.5	1.88	0.625	0.517	0.188	1.41	5.875	4.5
	1200	56C	2.44	3	1.22*0.34	2.75	0.86	5.75	4.25	4.72	3.8	6.5	6.5	12.6	3.5	0.118	6.5	1.88	0.625	0.517	0.188	1.41	5.875	4.5
3/4	3600	56C	2.44	3	1.22*0.34	2.75	0.86	5.75	4.25	4.72	3.8	6.5	6.5	12.6	3.5	0.118	6.5	1.88	0.625	0.517	0.188	1.41	5.875	4.5
	1800	56C	2.44	3	1.22*0.34	2.75	0.86	5.75	4.25	4.72	3.8	6.5	6.5	12.6	3.5	0.118	6.5	1.88	0.625	0.517	0.188	1.41	5.875	4.5
	1200	56C	2.44	3	1.22*0.34	2.75	0.86	5.75	4.25	4.72	3.8	6.5	6.5	12.6	3.5	0.118	6.5	1.88	0.625	0.517	0.188	1.41	5.875	4.5
1	3600	56C	2.44	3	1.22*0.34	2.75	0.86	5.75	4.25	4.72	3.8	6.5	6.5	12.6	3.5	0.118	6.5	1.88	0.625	0.517	0.188	1.41	5.875	4.5
	1800	56C	2.44	3	1.22*0.34	2.75	0.86	5.75	4.25	4.72	3.8	6.5	6.5	12.6	3.5	0.118	6.5	1.88	0.625	0.517	0.188	1.41	5.875	4.5
	1800	143TC	2.75	4	1.22*0.34	2.75	0.86	5.75	4.25	4.72	3.8	6.5	6.5	13.9	3.5	0.118	6.5	2.25	0.875	0.771	0.188	1.41	5.875	4.5
	1200	145TC	2.75	4	1.22*0.34	2.75	0.86	5.75	4.25	4.72	3.8	6.5	6.5	12.7	3.5	0.118	6.5	2.25	0.875	0.771	0.188	1.41	5.875	4.5
	3600	56C	2.44	3	1.22*0.34	2.75	0.86	5.75	4.25	4.72	3.8	6.5	6.5	12.6	3.5	0.118	6.5	1.88	0.625	0.517	0.188	1.41	5.875	4.5
1 1/2	3600	143TC	2.44	3	1.22*0.34	2.75	0.86	5.75	4.25	4.72	3.8	6.5	6.5	12.7	3.5	0.118	6.5	2.25	0.875	0.771	0.188	1.41	5.875	4.5
	1800	56C	2.44	3	1.22*0.34	2.75	0.86	5.75	4.25	4.72	3.8	6.5	6.5	12.6	3.5	0.118	6.5	1.88	0.625	0.517	0.188	1.41	5.875	4.5
	1800	145TC	2.75	4	1.22*0.34	2.75	0.86	5.75	4.25	4.72	3.8	6.5	6.5	12.7	3.5	0.118	6.5	2.25	0.875	0.771	0.188	1.41	5.875	4.5
	1200	182TC	3.75	4.5	0.71*0.47	3.5	0.94	7	5.3	4.45	4.05	8.8	6.5	15.3	4.5	0.118	8.85	2.75	1.125	0.986	0.25	1.78	7.25	8.5
2	3600	145TC	2.44	3	1.22*0.34	2.75	0.86	5.75	4.25	4.72	3.8	6.5	6.5	13.9	3.5	0.118	6.5	2.25	0.875	0.771	0.188	1.41	5.875	4.5
	1800	145TC	2.75	4	1.22*0.34	2.75	0.86	5.75	4.25	4.72	3.8	6.5	6.5	13.9	3.5	0.118	6.5	2.25	0.875	0.771	0.188	1.41	5.875	4.5
	1200	184TC	3.75	4.5	0.71*0.47	3.5	0.94	7	5.3	4.45	4.05	8.8	6.5	16.0	4.5	0.118	8.85	2.75	1.125	0.986	0.25	1.78	7.25	8.5
3	3600	182TC	3.75	4.5	0.71*0.47	3.5	0.94	7	5.3	4.45	4.05	8.8	6.5	15.3	4.5	0.118	8.85	2.75	1.125	0.986	0.25	1.78	7.25	8.5
	1800	182TC	3.75	4.5	0.71*0.47	3.5	0.94	7	5.3	4.45	4.05	8.8	6.5	15.3	4.5	0.118	8.85	2.75	1.125	0.986	0.25	1.78	7.25	8.5
	1200	213TC	4.25	5.5	0.71*0.47	4.25	0.94	7.6	6.2	4.45	4.05	10	8.5	19.0	5.25	0.157	10	3.38	1.375	1.201	0.312	2.41	7.25	8.5
5	3600	184TC	3.75	4.5	0.71*0.47	3.5	0.94	7	5.3	4.45	4.05	8.8	6.5	16.0	4.5	0.118	8.85	2.75	1.125	0.986	0.25	1.78	7.25	8.5
	1800	184TC	3.75	4.5	0.71*0.47	3.5	0.94	7	5.3	4.45	4.05	8.8	6.5	16.0	4.5	0.118	8.85	2.75	1.125	0.986	0.25	1.78	7.25	8.5
	1200	215TC	4.25	5.5	0.71*0.47	4.25	0.94	7.6	6.2	4.45	4.05	10	8.5	22.5	5.25	0.157	10	3.38	1.375	1.201	0.312	2.41	7.25	8.5
7 1/2	3600	213TC	4.25	5.5	0.71*0.47	4.25	0.94	7.6	6.2	4.45	4.05	10	8.5	19.0	5.25	0.157	10	3.38	1.375	1.201	0.312	2.41	7.25	8.5
	1800	213TC	4.25	5.5	0.71*0.47	4.25	0.94	7.6	6.2	4.45	4.05	10	8.5	19.0	5.25	0.157	10	3.38	1.375	1.201	0.312	2.41	7.25	8.5
10	3600	215TC	4.25	5.5	0.71*0.47	4.25	0.94	7.6	6.2	4.45	4.05	10	8.5	22.5	5.25	0.157	10	3.38	1.375	1.201	0.312	2.41	7.25	8.5
	1800	215TC	4.25	5.5	0.71*0.47	4.25	0.94	7.6	6.2	4.45	4.05	10	8.5	22.5	5.25	0.157	10	3.38	1.375	1.201	0.312	2.41	7.25	8.5
15	3600	254TC	5	8.25	0.53	4.75	1	9	7.8	7	7	12	9.5	23.4	6.25	0.5	12.7	4	1.625	1.416	0.375	2.91	7.25	8.5
	1800	254TC	5	8.25	0.53	4.75	1	9	7.8	7	7	12	9.5	23.4	6.25	0.5	12.7	4	1.625	1.416	0.375	2.91	7.25	8.5
20	3600	256TC	5	10	0.53	4.75	1	9	7.8	7	7	12	11.25	25.1	6.25	0.5	12.7	4	1.625	1.416	0.375	2.91	7.25	8.5
	1800	256TC	5	10	0.53	4.75	1	9	7.8	7	7	12	11.25	25.1	6.25	0.5	12.7	4	1.625	1.416	0.375	2.91	7.25	8.5

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