

**MOTOR PERFORMANCE DATA**

0311

**TEFC, CLASS F, 104°F (40°C) AMBIENT TEMP. DESIGN B CONTINUOUS DUTY S.F. 1.0, 220 V, 380 V, 460 V, 575 V, 60HZ**

**ALUMINUM MOTORS TYPICAL PERFORMANCE**

HP	kW	Full Load (RPM)	Frame No.	Current at 220V 60Hz (Amps)	Current at 380V 60Hz (Amps)	Current at 460V 60Hz (Amps)	Current at 575V 60Hz (Amps)	Efficiency		Power Factor		D.O.L. Start Current (% FLT)	D.O.L. Start Torque (% FLT)	Pull Up Torque (% FLT)	Pull Out Torque (% FLT)	Rotor Inertia GD <sup>2</sup> (lb, in <sup>2</sup> )	Approx Weight (lbs)
								100% Load (%)	75% Load (%)	100% Load (Cos ø)	75% Load (Cos ø)						
0.16	0.12	3405	63	0.86	0.50	0.41	0.33	61.2	57.0	0.60	0.58	560	230	200	250	7	10
		1660	63	0.90	0.52	0.43	0.34	60.5	60.0	0.58	0.49	500	220	200	280	8	10
0.25	0.18	3416	63	1.23	0.71	0.59	0.47	64.0	60.0	0.60	0.52	590	220	190	300	7	10
		1672	63	1.27	0.74	0.61	0.49	62.0	62.4	0.60	0.55	500	220	200	300	10	10
		1062	71	1.43	0.83	0.68	0.55	60.0	61.9	0.55	0.47	380	175	158	200	18	14
0.33	0.25	3416	63	1.58	0.91	0.75	0.60	64.0	60.0	0.65	0.57	600	240	200	300	8	10
		1708	71	1.54	0.89	0.74	0.59	65.5	64.0	0.65	0.57	550	220	200	300	12	14
		1062	71	1.80	1.04	0.86	0.69	63.0	63.3	0.58	0.50	400	175	158	210	22	14
0.5	0.37	3416	71	1.87	1.08	0.90	0.72	71.0	67.0	0.73	0.66	770	240	210	320	8	14
		1672	71	2.08	1.21	1.00	0.80	68.5	66.2	0.68	0.59	640	210	190	250	15	14
		1085	80A	2.59	1.50	1.24	0.99	65.7	64.0	0.57	0.52	520	200	180	220	28	21
0.75	0.55	3392	71	2.78	1.61	1.33	1.06	74.3	70.5	0.70	0.64	770	240	200	290	8	14
		1732	80A	2.81	1.62	1.34	1.07	73.5	72.0	0.70	0.60	670	220	200	270	23	21
		1085	80B	3.51	2.03	1.68	1.34	68.5	66.5	0.60	0.48	490	175	158	220	38	24
1	0.75	3424	80A	3.34	1.93	1.60	1.28	76.5	75.0	0.77	0.72	770	22	170	250	15	21
		1712	80A	3.58	2.07	1.71	1.37	75.3	74.3	0.73	0.67	580	200	200	260	28	21
		1085	90S	4.41	2.55	2.11	1.69	72.0	71.0	0.62	0.55	510	175	158	210	55	30
1.5	1.1	3424	80B	4.69	2.71	2.24	1.79	77.0	75.5	0.80	0.76	795	220	200	270	18	24
		1712	90S	5.15	2.98	2.46	1.97	77.8	76.8	0.72	0.66	720	220	200	240	44	30
		1092	90L	5.95	3.45	2.85	2.28	73.5	76.0	0.66	0.59	520	175	158	220	75	32
2	1.5	3424	90S	6.08	3.52	2.91	2.33	78.0	77.0	0.83	0.81	800	230	210	270	34	30
		1712	90L	6.39	3.70	3.1	2.45	80.0	78.2	0.77	0.69	700	210	185	250	55	32
		1092	100L	7.48	4.33	3.6	2.86	78.5	77.2	0.67	0.66	530	180	160	220	103	53
3	2.2	3460	90L	8.48	4.91	4.1	3.25	82.0	82.0	0.83	0.82	795	200	170	270	48	32
		1718	90LA	9.32	5.40	4.5	3.57	81.5	81.2	0.76	0.70	760	200	180	240	75	44
		1725	100L	9.14	5.29	4.4	3.50	82.0	81.0	0.77	0.67	770	205	180	250	103	53
		1122	112M	10.18	5.90	4.9	0.00	81.0	79.8	0.70	0.62	650	175	158	220	185	68
4	3	3473	100L	N/A	6.58	5.4	4.35	81.5	82.0	0.85	0.83	770	200	170	270	72	53
		1724	100L	N/A	6.78	5.6	4.48	84.0	83.0	0.80	0.74	700	200	180	240	144	53
		1127	132SA	N/A	7.16	5.9	4.73	82.7	82.0	0.77	0.70	720	175	158	230	479	106
5.5	4	3485	112M	N/A	8.27	6.8	5.47	83.5	83.2	0.88	0.86	870	200	160	260	144	68
		1736	112M	N/A	8.64	7.1	5.71	85.8	84.2	0.82	0.77	830	220	190	240	202	68
		1133	132M	N/A	9.78	8.1	6.46	84.0	82.2	0.74	0.66	750	200	180	240	547	115
7.5	5.5	3512	132SA	N/A	11.3	9.3	7.45	85.2	84.0	0.87	0.82	860	220	200	250	202	106
		1732	112MA	N/A	12.0	9.9	7.96	85.7	85.5	0.81	0.77	900	200	180	230	291	99
		1745	132SA	N/A	11.6	9.6	7.67	86.7	85.5	0.83	0.77	830	200	180	230	325	106
		1133	132M	N/A	12.5	10.3	8.23	86.0	84.8	0.78	0.73	850	185	170	230	718	115
10	7.5	3512	132SB	N/A	14.9	12.3	9.85	87.9	87.5	0.87	0.85	765	200	170	240	239	117
		1732	132M	N/A	15.2	12.5	10.0	88.3	87.9	0.85	0.80	840	215	200	230	444	115
		1133	160MA	N/A	16.9	14.0	11.2	86.2	84.0	0.78	0.71	850	190	170	240	1265	179
12.5	9.3	1742	132MA	N/A	19.0	15.6	12.5	87.7	87.2	0.85	0.81	900	200	180	230	752	194
15	11	3512	160MA	N/A	21.8	18.0	14.4	87.0	85.8	0.88	0.86	850	220	200	230	513	179
		1742	132MB	N/A	21.7	18.0	14.4	88.4	88.1	0.87	0.84	900	200	180	230	752	194
		1754	160MA	N/A	21.1	17.4	13.9	89.0	88.5	0.89	0.85	890	200	180	230	992	179
		1138	160L	N/A	23.8	19.7	15.7	87.7	87.2	0.80	0.75	830	200	180	230	1846	209
20	15	3521	160MB	N/A	28.5	23.5	18.8	89.0	88.3	0.90	0.89	900	220	200	230	684	172
		1760	160L	N/A	29.1	24.1	19.2	91.0	90.5	0.86	0.81	900	210	190	220	1162	209
25	18.5	3527	160L	N/A	34.9	28.8	18.7	89.5	88.8	0.90	0.89	875	220	200	230	821	209

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0311

**TEFC, CLASS F, 104°F (40°C) AMBIENT TEMP. DESIGN B CONTINUOUS DUTY S.F. 1.0, 220 V, 380 V, 460 V, 575 V, 60HZ**

**CAST IRON MOTORS TYPICAL PERFORMANCE**

HP	kW	Full Load (RPM)	Frame No.	Current at 220V 60Hz (Amps)	Current at 380V 60Hz (Amps)	Current at 460V 60Hz (Amps)	Current at 575V 60Hz (Amps)	Efficiency		Power Factor		D.O.L. Start Current (% FLT)	D.O.L. Start Torque (% FLT)	Pull Up Torque (% FLT)	Pull Out Torque (% FLT)	Rotor Inertia GD <sup>2</sup> (lb, in <sup>2</sup> )	Approx Weight (lbs)
								100% Load (%)	75% Load (%)	100% Load (Cos ø)	75% Load (Cos ø)						
5.5	4	868	D160M	N/A	9.43	7.79	6.2	85.4	85	0.755	0.679	532	198	188	283	1200	249
7.5	5.5	864	D160M	N/A	13.2	10.9	8.7	84	84.3	0.755	0.682	575	217	195	331	281	249
10	7.5	1164	D160M	N/A	16.8	13.9	11.1	85	84.6	0.797	0.74	646	187	168	349	274	249
		864	D160L	N/A	17.2	14.2	11.4	85.6	86.2	0.773	0.703	576	216	194	340	390	293
15	11	3522	D160M	N/A	21.2	17.5	14.0	87.9	86.2	0.896	0.874	784	257	231	326	127	249
		1752	D160M	N/A	22.4	18.5	14.8	87.9	87.5	0.85	0.797	792	242	217	313	248	249
		1164	D160L	N/A	23.5	19.4	15.5	87.3	87.3	0.814	0.754	696	195	175	333	37	293
		876	D180L	N/A	24.8	20.5	16.4	87	87.1	0.774	0.702	657	230	207	297	571	399
20	15	3522	D160M	N/A	28.3	23.3	18.7	88.9	88.2	0.907	0.887	777	243	218	327	148	249
		1752	D160L	N/A	30.1	24.8	19.9	88.9	88.7	0.853	0.806	815	300	270	333	318	293
		1164	D180L	N/A	31.0	25.6	20.5	89	89.1	0.827	0.779	640	213	191	303	571	399
		876	D200L	N/A	33.1	27.3	21.9	88.6	88.5	0.778	0.712	625	186	167	298	1111	511
25	18.5	3522	D160L	N/A	34.2	28.2	22.6	89.6	89.6	0.918	0.899	793	275	247	336	179	293
		1764	D180M	N/A	35.1	29.0	23.2	90	90	0.891	0.847	757	245	220	315	462	368
		1170	D200L	N/A	37.4	30.9	24.7	89.4	89.4	0.84	0.787	651	213	191	329	1033	511
		876	D225S	N/A	40.7	33.7	26.9	89.6	89.4	0.77	0.71	680	200	180	300	1645	633
30	22	3528	D180M	N/A	40.8	33.7	27.0	90.3	89.9	0.907	0.889	752	252	226	344	243	368
		1764	D180L	N/A	43.7	36.1	28.9	88.8	91	0.861	0.842	674	225	202	309	465	399
		1170	D200L	N/A	44.2	36.6	29.2	89.4	89.8	0.845	0.811	669	217	195	316	1186	511
		876	D225M	N/A	48.1	39.8	31.8	90.2	90	0.77	0.722	682	213	191	301	1815	710
40	30	3534	D200L	N/A	55.6	45.9	36.7	91.1	90.6	0.90	0.879	742	266	239	346	407	511
		1764	D200L	N/A	56.4	46.6	37.2	91.4	91.4	0.885	0.834	664	231	207	303	838	511
		1176	D225M	N/A	58.7	48.5	38.8	91.2	91.1	0.852	0.826	612	235	211	284	1795	710
		876	D250M	N/A	61.6	50.9	40.7	90.3	90.1	0.82	0.768	582	198	178	298	2766	849
50	37	3534	D200L	N/A	66.8	55.2	44.1	91.5	90.7	0.92	0.898	782	248	223	298	2766	511
		1770	D225S	N/A	70.0	57.8	46.3	91.9	91.8	0.874	0.842	658	221	198	306	1333	633
		1176	D250M	N/A	71.2	58.8	47.0	91	90.7	0.868	0.831	688	212	190	323	2759	849
		882	D280S	N/A	78.2	64.6	51.7	91	90.8	0.79	0.71	660	200	180	240	4722	1124
60	45	3540	D225M	N/A	82.8	68.4	54.7	92	91.7	0.898	0.878	788	275	247	369	756	710
		1770	D225M	N/A	83.7	69.1	55.3	92	91.7	0.888	0.862	743	209	188	314	1539	710
		1176	D280S	N/A	86.4	71.4	57.1	92	91.6	0.86	0.83	700	230	207	270	4561	1124
		882	D280M	N/A	94.6	78.1	62.5	91.5	91.1	0.79	0.71	660	200	180	240	5884	1323
75	55	3558	D250M	N/A	101	83.7	66.9	92.5	91.4	0.892	0.863	770	195	175	368	1043	849
		1770	D250M	N/A	102	83.9	67.2	92.5	92.1	0.889	0.86	685	223	200	316	2188	849
		1176	D280M	N/A	105	87.0	69.6	92.3	91.8	0.86	0.83	700	230	207	270	5464	1323
100	75	3558	D280S	N/A	135	111	88.9	93.1	92.3	0.91	0.89	780	220	200	250	1997	1124
		1782	D280S	N/A	140	116	92.8	93.3	92.6	0.87	0.85	750	220	200	240	3573	1124
120	90	3558	D280M	N/A	161	133	106	93.4	92.7	0.91	0.89	780	220	200	250	2274	1323
		1782	D280M	N/A	168	139	111	93.7	93.2	0.87	0.85	750	220	200	240	4773	1323

- NOTE.
1. The above are typical values based on test.
  2. Actual load & full voltage starting, According to BS 4999, AS 1359.
  3. Tolerance according to BS4999, AS1359.
  4. Efficiency, power factor, speed and torque are the same for other voltages. Current values vary inversely with voltage.
  5. Data subject to change without notice.