

MOTOR HP FULL LOAD AMPS CHART

HP	RPM*	Full Load Current (A)					
		208V	240V	480V	600V	2200V	4000V
1/4	3600	1.20	1.04	0.52	0.42	*	*
	1800	1.39	1.20	0.60	0.48	*	*
	1200	1.62	1.40	0.70	0.56	*	*
	900	*	*	*	*	*	*
1/3	3600	1.48	1.28	0.64	0.51	*	*
	1800	1.69	1.46	0.73	0.58	*	*
	1200	1.89	1.64	0.82	0.66	*	*
	900	*	*	*	*	*	*
1/2	3600	2.08	1.80	0.90	0.72	*	*
	1800	2.54	2.20	1.10	0.88	*	*
	1200	2.89	2.50	1.25	1.00	*	*
	900	*	*	*	*	*	*
3/4	3600	2.89	2.50	1.25	1.00	*	*
	1800	3.47	3.00	1.50	1.20	*	*
	1200	3.81	3.30	1.65	1.32	*	*
	900	*	*	*	*	*	*
1	3600	3.51	3.04	1.52	1.22	*	*
	1800	4.25	3.68	1.84	1.47	*	*
	1200	4.60	3.98	1.99	1.59	*	*
	900	*	*	*	*	*	*
1-1/2	3600	5.04	4.36	2.18	1.74	*	*
	1800	5.80	5.02	2.51	2.01	*	*
	1200	6.49	5.62	2.81	2.25	*	*
	900	*	*	*	*	*	*
2	3600	6.51	5.64	2.82	2.26	*	*
	1800	7.18	6.22	3.11	2.49	*	*
	1200	8.20	7.10	3.55	2.84	*	*
	900	*	*	*	*	*	*
3	3600	9.24	8.00	4.00	3.20	*	*
	1800	10.4	9.04	4.52	3.62	*	*
	1200	11.6	10.1	5.04	4.03	*	*
	900	*	*	*	*	*	*
5	3600	15.7	13.6	6.80	5.44	*	*
	1800	15.9	13.8	6.88	5.50	*	*
	1200	18.6	16.1	8.07	6.46	*	*
	900	*	*	*	*	*	*

* Synchronous speed nameplate is usually less due to slip.

HP	RPM*	Full Load Current (A)					
		208V	240V	480V	600V	2200V	4000V
7-1/2	3600	22.1	19.1	9.57	7.66	*	*
	1800	25.0	21.7	10.8	8.66	*	*
	1200	26.6	23.1	11.5	9.22	*	*
	900	*	*	*	*	*	*
10	3600	29.7	25.7	12.9	10.3	*	*
	1800	31.5	27.3	13.7	10.9	*	*
	1200	32.9	28.4	14.2	11.4	*	*
	900	*	*	*	*	*	*
15	3600	43.0	37.2	18.6	14.9	*	*
	1800	46.7	40.4	20.2	16.2	*	*
	1200	49.1	42.5	21.3	17.0	*	*
	900	*	*	*	*	*	*
20	600	*	*	*	*	*	*
	3600	59.2	51.3	25.6	20.5	5.2	2.9
	1800	59.6	51.6	25.8	20.6	5.3	3.0
	1200	61.7	53.4	26.7	21.4	5.4	3.1
25	900	*	*	*	*	5.8	3.2
	600	*	*	*	*	6.4	3.5
	3600	70.9	61.4	30.7	24.6	6.3	3.4
	1800	74.7	64.7	32.3	25.9	6.5	3.6
30	1200	76.0	65.8	32.9	26.3	6.7	3.7
	900	*	*	*	*	6.9	3.8
	600	*	*	*	*	8.1	4.4
	3600	85.7	74.2	37.1	29.7	*	*
40	1800	88.2	76.4	38.2	30.5	7.8	4.3
	1200	91.6	79.3	39.7	31.7	8.0	4.4
	900	*	*	*	*	8.2	4.5
	600	*	*	*	*	9.3	5.0
50	3600	111	96.0	48.0	38.4	*	*
	1800	117	102	50.8	40.6	10.0	5.5
	1200	119	103	51.7	41.4	10.3	5.7
	900	*	*	*	*	10.6	5.8
60	600	*	*	*	*	11.5	6.3
	3600	141	122	61.2	49.0		
	1800	144	125	62.3	49.8	12.3	6.8
	1200	147	127	63.4	50.7	12.4	6.8
70	900	*	*	*	*	13.1	7.2
	600	*	*	*	*	14.2	7.8

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HP	RPM*	Full Load Current (A)					
		208V	240V	480V	600V	2200V	4000V
60	3600	165	143	71.6	57.3		
	1800	172	149	74.3	59.4	14.6	8.0
	1200	173	150	74.9	59.9	14.9	8.2
	900	*	*	*	*	15.4	8.5
	600	*	*	*	*	16.7	9.2
75	3600	204	177	88.5	70.8		
	1800	211	183	91.4	73.1	18.0	9.9
	1200	215	186	93.1	74.5	18.2	10.0
	900	*	*	*	*	19.0	10.5
	600	*	*	*	*	21.0	11.6
100	3600	267	231	116	92.6		
	1800	276	239	119	95.5	23.6	13.0
	1200	281	243	122	97.2	24.2	13.3
	900	*	*	*	*	24.8	13.6
	600	*	*	*	*	26.4	14.5
	450	*	*	*	*	29.8	16.4
125	3600	333	288	144	115		
	1800	340	294	147	118	29.2	16.1
	1200	347	300	150	120	29.9	16.4
	900	*	*	*	*	30.9	17.0
	720	*	*	*	*	31.3	17.2
	600	*	*	*	*	32.8	18.0
	450	*	*	*	*	36.0	19.8
150	3600	397	344	172	138		
	1800	404	350	175	140	34.8	19.1
	1200	414	358	179	143	35.5	19.5
	900	*	*	*	*	37.0	20.4
	720	*	*	*	*	37.0	20.4
	600	*	*	*	*	38.8	21.3
	450	*	*	*	*	42.0	23.1
200	3600	524	454	227	182		
	1800	531	460	230	184	46.7	25.7
	1200	538	466	233	186	47.0	25.9
	900	*	*	*	*	49.4	27.2
	720	*	*	*	*	49.0	27.0
	600	*	*	*	*	50.9	28.0
	450	*	*	*	*	53.7	29.5

HP	RPM*	Full Load Current (A)					
		208V	240V	480V	600V	2200V	4000V
250	3600	642	556	278	222		
	1800	658	570	285	228	57.5	31.6
	1200	682	590	295	236	58.5	32.2
	900	*	*	*	*	61.5	33.8
	720	*	*	*	*	61.5	33.8
300	3600	774	670	335	268		
	1800	790	684	342	274	69.0	38.0
	1200	804	696	348	278	70.0	38.5
	900	*	*	*	*	73.5	40.4
	600	*	*	*	*	72.3	39.8
350	3600	874	748	374	299	*	*
	1800	892	762	381	305	*	*
	1200	902	774	387	310	*	*
	900	*	*	*	*	*	*
	600	*	*	*	*	*	*
400	3600	1074	874	437	350	*	*
	1800	1096	892	446	357	*	*
	1200	1108	902	451	361	*	*
	900	*	*	*	*	*	*
	600	*	*	*	*	*	*
500	3600	1096	972	486	389	*	*
	1800	1096	992	496	397	*	*
	1200	1108	1004	502	402	*	*
	900	*	*	*	*	*	*
	600	*	*	*	*	*	*

* Synchronous speed nameplate is usually less due to slip.

NEMA Specifications

NEMA Non-Combination and Combination Contactors/Starters
Full Load Currents of 3-Phase, 60 Hertz AC Induction Motors

The full load currents listed above are “average values” for horsepower rated motors of several manufacturers at the more common rated voltages and speeds. These “average values”, along with the similar values listed in the U. S. National Electrical Code (NEC), should be used only as a guide for selecting suitable components for the Motor Branch Circuit. The rated full load current, shown on the motor nameplate, may vary considerably from the listed value depending on the specific motor design.

ATTENTION: The motor nameplate full load current should always be used in determining the rating of the devices used for Motor Running Overcurrent Protection.

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