

Horsepower	60 Hz AC Induction Motor						
	Single Phase		Three Phase				
	115 Volt	230 Volt	200 Volt	230 Volt	380-415 Volt	460 Volt	575 Volt
1/6	4.4	2.2	~	~		~	~
1/4	5.8	2.9	~	~		~	~
1/3	7.2	3.6	~	~		~	~
1/2	9.8	4.9	2.5	2.2	1.3	1.1	0.9
3/4	13.8	6.9	3.7	3.2	1.8	1.6	1.3
1	16.0	8.0	4.8	4.2	2.3	2.1	1.7
1 1/2	20.0	10.0	6.9	6.0	3.3	3.0	2.4
2	24.0	12.0	7.8	6.8	4.3	3.4	2.7
3	34.0	17.0	11.0	9.6	6.1	4.8	3.9
5	56.0	28.0	17.5	15.2	9.7	7.6	6.1
7 1/2	80.0	40.0	25.0	22.0	14.0	11.0	9.0
10	100	50.0	32.0	28.0	18.0	14.0	11.0
15	135	68.0	48.0	42.0	27.0	21.0	17.0
20	~	88.0	62.0	54.0	34.0	27.0	22.0
25	~	110	78.0	68.0	43.0	34.0	27.0
30	~	136	92.0	80.0	51.0	40.0	32.0
40	~	176	120	104	66.0	52.0	41.0
50	~	216	150	130	83.0	65.0	52.0
60	~	~	177	154	103	77.0	62.0
75	~	~	221	192	128	96.0	77.0
100	~	~	285	248	165	124	99.0
125	~	~	359	312	208	156	125
150	~	~	414	360	240	180	144
175	~	~	475	413	275	207	168
200	~	~	552	480	320	240	192
250	~	~	692	602	403	302	242
300	~	~	~	~	482	361	289
350	~	~	~	~	560	414	336
400	~	~	~	~	636	477	382
450	~	~	~	~	711	515	412
500	~	~	~	~	786	590	472

The information in this chart was derived from Table 430-148 & 430-150 of the NEC and Table 50.1 of UL standard 508A. The voltages listed are rated motor voltages. The currents listed shall be permitted for system voltage ranges of 110-120, 220-240, 380-415, 440-480 and 550-600 volts.

The full-load current values are for motors running at usual speeds and motors with normal torque characteristics. Motors built for especially

low speeds or high torques may have higher full-load currents, and multi-speed motors will have full-load currents varying with speed. In these cases, the nameplate current ratings shall be used.

Caution: The actual motor amps may be higher or lower than the average values listed above. For more reliable motor protection, use the actual motor current as listed on the motor nameplate. Use this table as a guide only

Table 50.2
Full-load motor-running currents in amperes corresponding to various DC horsepower ratings
Table 50.2 effective April 25, 2003

Horsepower	90 Volts	110-120 Volts	180 Volts	220-240 Volts	500 Volts	550-600 Volts
1/10	~	2.0	~	1.0	~	~
1/8	~	2.2	~	1.1	~	~
1/6	~	2.4	~	1.2	~	~
1/4 ^a	4.0	3.1	2.0	1.6	~	~
1/3	5.2	4.1	2.6	2.0	~	~
1/2	6.8	5.4	3.4	2.7	~	~
3/4	9.6	7.6	4.8	3.8	~	1.6
1	12.2	9.5	6.1	4.7	~	2.0
1-1/2	~	13.2	8.3	6.6	~	2.7
2	~	17	10.8	8.5	~	3.6
3	~	25	16	12.2	~	5.2
5	~	40	27	20	~	8.3
7-1/2	~	58	~	29	13.6	12.2
10	~	76	~	38	18	16
15	~	110	~	55	27	24
20	~	148	~	72	34	31