

## Full-Load Currents of Motors

Note: the following table contains approximate full-load currents for motors of various types, speeds, and frequencies. Variations of  $\pm 10\%$  may be expected.

Hp. of Motor	Current - Full-Load (Amperes)				
	Direct-current Motors			Single-phase	
	115 volt	230 volt	550 volt	110 volt	220 volt
¼				4.8	2.4
½	4.5	2.3		7	3.5
¾	6.5	3.3	1.4	9.4	4.7
1	8.4	4.2	1.7	11	5.5
1 ½	12.5	6.3	2.6	15.2	7.6
2	16.1	8.3	3.4	20	10
3	23	12.3	5.0	28	14
5	40	19.8	8.2	46	23
7 ½	58	28.7	12	68	34
10	75	38	16	86	43
15	112	56	23		
20	140	74	30		
25	185	92	38		
30	220	110	45		
40	294	146	61		
50	364	18	75		
60	436	215	90		
75	540	268	111		
100		357	146		
125		443	184		
150			220		
175					

200			295		

### Full-Load Currents of Motors (Continued)

HP of Motor	Current - Full-Load (Amperes)																			
	Alternating-Current Motors																			
	Squirrel-Cage Induction Motors										Slip-Ring Induction Motors									
	Two-phase					Three-phase					Two-phase					Three-phase				
	110 volt	220 volt	440 volt	550 volt	2300 volt	110 volt	220 volt	440 volt	550 volt	2300 volt	110 volt	220 volt	440 volt	550 volt	2300 volt	110 volt	220 volt	440 volt	550 volt	2300 volt
¼																				
½	4.3	2.2	1.1	.9		5.0	2.5	1.3	1.0											
¾	4.7	2.4	1.2	1.0		5.4	2.8	1.4	1.1		6.2	3.1	1.6	1.3		7.2	3.6	1.8	1.5	
1	5.7	2.9	1.4	1.2		6.6	3.3	1.7	1.3		6.7	3.4	1.7	1.4		7.8	3.9	2.0	1.6	
1 ½	7.7	4.0	2	1.6		9.4	4.7	2.4	2.0		11.7	5.9	3.0	2.3		14.4				
2	10.4	5	3	2.0		12.0	6	3.0	2.4		12.5	6.3	3.1	2.5		20.02	7.2	3.6	2.9	
3		8	4	3.0			9	4.5	4.0			8.7	4.3	3.5			10	5.0	4	
5		13	7	6			15	7.5	6.0			13.0	6.5	5.2			15	7.5	6	
7 ½		19	9	7			22	11	9.0			20.0	10.0	7.6			25	13	10	
10		24	12	10			27	14	11			24.3	12.1	10.0			28	14	11	
15		33	16	13			38	19	15			39	19.5	15.6			45	23	18	
20		45	23	19			52	26	21	5.7		49	24.7	19.8			56	28	22	
25		55	28	22			64	32	26	7		60	30.0	24.0	6.4		67	34	27	7.5
30		67	34	27	7		77	39	31	8		72	36.0	28.8	7.8		82	41	33	9
40		88	44	35	9		101	51	40	10		93	46.5	37.3	9.5		106	53	42	11
50		108	54	43	11		125	63	50	13		113	57	45	12.1		128	64	51	14
60		129	65	52	13		149	75	60	15		135	68	54	14.0		150	75	60	16
75		156	78	62	16		180	90	72	19		164	82	65	17.3		188	94	75	19

100		212	106	85	22		246	123	98	25		214	108	87	21.7		246	123	99	25
125		268	134	108	27		310	155	124	32		267	134	108	27		310	155	124	31
150		311	155	124	31		360	180	144	36		315	158	127	32		364	182	145	37
175																				
200		415	208	166	43		480	240	195	49		430	216	173	44		490	245	196	52