

FULL LOAD SPEED AND AMPERES

SYNCHRONOUS AND APPROXIMATE FULL LOAD SPEED OF STANDARD A.C. INDUCTION MOTORS

Number of Poles	60 Cycle RPM		50 Cycle RPM	
	SYNC.	F.L.	SYNC.	F.L.
2	3600	3500	3000	2900
4	1800	1770	1500	1450
6	1200	1170	1000	960
8	900	870	750	720
10	720	690	600	575
12	600	575	500	480
14	515	490	429	410
16	450	430	375	360
18	400	380	333	319
20	360	340	300	285
22	327	310	273	260
24	300	285	240	230
26	277	265	231	222
28	257	245	214	205
30	240	230	200	192

FULL LOAD AMPERES AT MOTOR TERMINALS * AVERAGE VALUES FOR ALL SPEEDS AND FREQUENCIES

Motor HP	Single-Phase A-C		Three-Phase A-C Induction Type Squirrel Cage & Wound Rotor			Direct Current	
	115 Volts	230 Volts	230 Volts	460 Volts	575 Volts	120 Volts	240 Volts
1/2	9.8	4.9	2.0	1.0	.8	5.2	2.6
3/4	13.8	6.9	2.8	1.4	1.1	7.4	3.7
1	16	8	3.6	1.8	1.4	9.4	4.7
1 1/2	20	10	5.2	2.6	2.1	13.2	6.6
2	24	12	6.8	3.4	2.7	17	8.5
3	34	17	9.6	4.8	3.9	25	12.2
5	56	28	15.2	7.6	6.1	40	20
7 1/2	80	40	22	11	9	58	29
10	100	50	28	14	11	76	38
15			42	21	17	112	55
20			54	27	22	148	72
25			68	34	27	184	89
30			80	40	32	220	106
40			104	52	41	292	140
50			130	65	52	360	173
60			154	77	62	430	206
75			192	96	77	536	255
100			240	120	96		350
125			296	148	118		440
150			350	175	140		530
200			445	228	182		710
250			558	279	223		