



## Ampere Ratings For 3 Phase AC Induction Motors

Application Data

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### 3 Phase

Amperes 60Hz					
Hp	Syn Speed RPM	200 Volts	230 Volts	460 Volts	575 Volts
¼	1800	1.09	0.95	0.48	0.38
	1200	1.61	1.40	0.70	0.56
	900	1.84	1.60	0.80	0.64
½	1800	1.37	1.19	0.60	0.48
	1200	1.83	1.59	0.80	0.64
	900	2.07	1.80	0.90	0.72
¾	1800	1.98	1.72	0.86	0.69
	1200	2.47	2.15	1.08	0.86
	900	2.74	2.38	1.19	0.95
1	1800	2.83	2.46	1.23	0.98
	1200	3.36	2.82	1.46	1.17
	900	3.75	3.26	1.63	1.30
1 ½	3600	3.22	2.80	1.40	1.12
	1800	4.09	3.56	1.78	1.42
	1200	4.32	3.76	1.88	1.50
2	3600	4.95	4.30	2.15	1.72
	1800	5.01	4.36	2.18	1.74
	1200	5.59	4.86	2.43	1.94
3	3600	6.07	5.28	2.64	2.11
	1800	6.44	5.60	2.80	2.24
	1200	6.44	5.60	2.80	2.24
4	3600	6.44	5.60	2.80	2.24
	1800	7.36	6.40	3.20	2.56
	1200	7.87	6.84	3.42	2.74
5	3600	9.09	7.90	3.95	3.16
	1800	9.59	8.34	4.17	3.34
	1200	10.8	9.40	4.70	3.76
7 ½	3600	11.7	10.2	5.12	4.10
	1800	13.1	11.4	5.70	4.55
	1200	13.1	11.4	5.70	4.55
10	3600	15.5	13.5	5.76	5.41
	1800	16.6	14.4	7.21	5.78
	1200	18.2	15.8	7.91	6.32
15	3600	18.3	15.9	7.92	6.33
	1800	22.4	19.5	9.79	7.81
	1200	24.7	21.5	10.7	8.55
20	3600	25.1	21.8	10.9	8.70
	1800	26.5	23.0	11.5	9.19
	1200	29.2	25.4	12.7	10.1
30	3600	30.8	25.8	13.4	10.7
	1800	32.2	28.0	14.0	11.2
	1200	35.1	30.5	15.2	12.2
40	3600	41.9	36.4	18.2	14.5
	1800	45.1	39.2	19.6	15.7
	1200	47.6	41.4	20.7	16.5
50	3600	51.2	44.5	22.2	17.8
	1800	58.0	50.4	25.2	20.1
	1200	58.9	51.2	25.6	20.5
75	3600	60.7	52.8	26.4	21.1
	1800	63.1	54.9	27.4	21.9
	1200	63.1	54.9	27.4	21.9

### 3 Phase

Amperes 60Hz					
Hp	Syn Speed RPM	200 Volts	230 Volts	460 Volts	575 Volts
25	3600	69.9	60.8	30.4	24.3
	1800	74.5	64.8	32.4	25.9
	1200	75.4	65.6	32.8	26.2
30	3600	77.4	67.3	33.7	27.0
	1800	84.8	73.7	36.8	29.4
	1200	86.9	75.6	37.8	30.2
40	3600	90.6	78.8	39.4	31.5
	1800	94.1	81.8	40.9	32.7
	1200	94.1	81.8	40.9	32.7
50	3600	111	96.4	48.2	38.5
	1800	116	101	50.4	40.3
	1200	117	102	50.6	40.4
60	3600	121	105	52.2	41.7
	1800	138	120	60.1	48.2
	1200	143	124	62.2	49.7
75	3600	145	126	63.0	50.4
	1800	150	130	65.0	52.0
	1200	150	130	65.0	52.0
100	3600	164	143	71.7	57.3
	1800	171	149	74.5	59.4
	1200	173	150	75.0	60.0
125	3600	177	154	77.0	61.5
	1800	206	179	89.6	71.7
	1200	210	183	91.6	73.2
150	3600	212	184	92.0	73.5
	1800	222	193	96.5	77.5
	1200	222	193	96.5	77.5
200	3600	266	231	115	92.2
	1800	271	236	118	94.8
	1200	275	239	120	95.6
250	3600	290	252	126	101
	1800	—	292	146	116
	1200	—	293	147	117
300	3600	—	298	149	119
	1800	—	305	153	122
	1200	—	305	153	122
400	3600	—	343	171	137
	1800	—	348	174	139
	1200	—	350	174	139
500	3600	—	365	183	146
	1800	—	458	229	184
	1200	—	452	226	181
600	3600	—	460	230	184
	1800	—	482	241	193
	1200	—	482	241	193
800	3600	—	559	279	223
	1800	—	568	284	227
	1200	—	573	287	229
1000	3600	—	600	300	240
	1800	—	278	339	271
	1200	—	684	342	274
1200	3600	—	896	448	358
	1800	—	896	448	358
	1200	—	896	448	358

Full load ampere ratings of motors vary depending upon a number of factors. The full load currents listed above are "average values" for horsepower rated motors of several manufacturers at the most commonly rated voltages and speeds. These "average values" along with the similar values listed in the N.E.C. should be used as a guide only 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 specified motor design.

**Note: RPM shown for 60Hz motors. For 50Hz motors, multiply the 60Hz FLA value by 1.2.**

#### Overload Relay Selection Multi-Speed/Part-Winding/Wye-Delta

Special attention should be given to the selection of the overload relay adjustment range for multi-speed, part-winding and wye-delta controllers, as follows:

**Multi-Speed Controllers:** Each speed requires a separate set of overloads. The adjustment range must be selected on the basis of the full-load current for each particular speed.

**Part-Winding Controllers:** Each winding of the motor must have its own set of overloads. The adjustment range should be selected on the basis of one-half the motor full-load current; that is, the full load current of each winding current.

**Wye-Delta Controllers:** Only one set of overloads is required. Since the overload relay is located electrically "inside the delta connection," the adjustment range must be selected on the basis of the full-load motor current (delta connection) divided by 1.73.