



## Motor Rating Data

### Ampere Rating of Three Phase, 60 Cycle A-C Motors

Ampere rating of motors vary somewhat, depending upon the type of motor. The values given below are for drip-proof, Class B insulated (T Frame) where available, 1.15 service factor, NEMA Design B motors. These values represent on average full load motor current which was calculated from the motor performance data published by several motor manufacturers. In case of high torque squirrel cage motors, the ampere rating will be at least 10% greater than the values given below.

Caution - These average ratings could be high or low for specific motor and therefore heater coil selection on this basis always involves risk. For fully reliable motor protection, select heater coils on the basis of full load current rating as shown on motor nameplate.

HP	Syn. Speed RPM	Current in Amperes				
		115V	230V	380V	460V	575V
1/4	1800	1.90	.95	.55	.48	.38
	1200	2.80	1.40	.81	.70	.56
	900	3.20	1.60	.93	.80	.64
1/3	1800	2.38	1.19	.69	.60	.48
	1200	3.18	1.59	.92	.80	.64
	900	3.60	1.80	1.04	.90	.72
1/2	1800	3.44	1.72	.99	.86	.69
	1200	4.30	2.15	1.24	1.08	.86
	900	4.76	2.38	1.38	1.19	.95
3/4	1800	4.92	2.46	1.42	1.23	.98
	1200	5.84	2.92	1.69	1.46	1.17
	900	6.52	3.26	1.88	1.63	1.30
1	3600	5.60	2.80	1.70	1.40	1.12
	1800	7.12	3.56	2.06	1.78	1.42
	1200	7.52	3.76	2.28	1.88	1.50
900	8.60	4.30	2.60	2.15	1.72	
1 1/2	3600	8.72	4.36	2.64	2.18	1.74
	1800	9.71	4.86	2.94	2.43	1.94
	1200	10.5	5.28	3.20	2.64	2.11
900	11.2	5.60	3.39	2.80	2.24	
2	3600	11.2	5.60	3.39	2.80	2.24
	1800	12.8	6.40	3.87	3.20	2.56
	1200	13.7	6.84	4.14	3.42	2.74
900	15.8	7.90	4.77	3.95	3.16	
3	3600	16.7	8.34	5.02	4.17	3.34
	1800	18.8	9.40	5.70	4.70	3.76
	1200	20.5	10.2	6.20	5.12	4.10
900	22.8	11.4	6.90	5.70	4.55	
5	3600	27.1	13.5	8.20	6.76	5.41
	1800	28.9	14.4	8.74	7.21	5.78
	1200	31.7	15.8	9.59	7.91	6.32
900	31.0	15.5	9.38	7.75	6.20	
7 1/2	3600	39.1	19.5	11.8	9.79	7.81
	1800	43.0	21.5	13.0	10.7	8.55
	1200	43.7	21.8	13.	10.9	8.70
900	46.0	23.0	13.9	11.5	9.19	
10	3600	50.8	25.4	15.4	12.7	10.0
	1800	53.8	26.8	16.3	13.4	10.7
	1200	56.0	28.0	16.9	14.0	11.2
900	61.0	30.5	18.5	15.2	12.2	
15	3600	72.7	36.4	22.0	18.2	14.5
	1800	78.4	39.2	23.7	19.6	15.7
	1200	82.7	41.4	25.0	20.7	16.5
900	89.0	44.5	26.9	22.2	17.8	
20	3600	101.1	50.4	30.5	25.2	20.1
	1800	102.2	51.2	31.0	25.6	20.5
	1200	105.7	52.8	31.9	26.4	21.1
900	109.5	54.9	33.2	27.4	21.9	

HP	Syn. Speed RPM	Current in Amperes					
		115V	230V	380V	460V	575V	2200V
25	3600	121.5	60.8	36.8	30.4	24.3	-
	1800	129.8	64.8	39.2	32.4	25.9	-
	1200	131.2	65.6	39.6	32.8	26.2	-
900	134.5	67.3	40.7	33.7	27.0	-	
30	3600	147.	73.7	44.4	36.8	29.4	-
	1800	151.	75.6	45.7	37.8	30.2	-
	1200	158.	78.8	47.6	39.4	31.5	-
900	164.	81.8	49.5	40.9	32.7	-	
40	3600	193.	96.4	58.2	48.2	38.5	-
	1800	202.	101.	61.0	50.4	40.3	-
	1200	203.	102.	61.2	50.6	40.4	-
900	209.	105.	63.2	52.2	41.7	-	
50	3600	241.	120.	72.9	60.1	48.2	-
	1800	249.	124.	75.2	62.2	49.7	-
	1200	252.	126.	76.2	63.0	50.4	-
900	260.	130.	78.5	65.0	52.0	-	
60	3600	287.	143.	86.8	71.7	57.3	-
	1800	298.	149.	90.0	74.5	59.4	-
	1200	300.	150.	91.0	75.0	60.0	-
900	308.	154.	93.1	77.0	61.5	-	
75	3600	359.	179.	108.	89.6	71.7	-
	1800	365.	183.	111.	91.6	73.2	-
	1200	368	184.	112.	92.0	73.5	-
900	386.	193.	117.	96.5	77.5	-	
100	3600	461.	231.	140.	115.	92.2	-
	1800	474.	236.	144.	118.	94.8	23.6
	1200	478.	239.	145.	120.	95.6	24.2
900	504.	252.	153.	126.	101.	24.8	
125	3600	583.	292.	176.	146.	116.	-
	1800	584.	293.	177.	147.	117.	29.2
	1200	596.	298.	180.	149.	119.	29.9
900	610.	305.	186.	153.	122.	30.9	
150	3600	687.	343.	208.	171.	137.	-
	1800	693.	348.	210.	174.	139.	34.8
	1200	700.	350.	210.	174.	139.	35.5
900	730.	365.	211.	183.	146.	37.0	
200	3600	915.	458.	277.	229.	184.	-
	1800	904.	452.	274.	226.	181.	46.7
	1200	920.	460.	266.	230.	184.	47.0
900	964.	482.	279.	241.	193.	49.4	
250	3600	1118.	559.	338.	279.	223.	-
	1800	1136.	568.	343.	284.	227.	57.5
	1200	1146.	573.	345.	287.	229.	58.5
900	1200.	600.	347.	300.	240.	60.5	
300	1800	1356.	678.	392.	339.	271.	69.0
	1200	1368.	684.	395.	342.	274.	70.0
400	1800	1792.	896.	518.	448.	358.	91.8
500	1800	2220.	1110.	642.	555.	444.	116.