

## AC MOTOR AND POWER TRANSFORMER AMPACITY TABLE

HP	1ph AC MOTORS		3ph AC MOTORS				kVA	1ph AC TRANSFORMERS			3ph AC TRANSFORMERS		
	115	230	115	230	380	460		230	380	440	230	380	440
0.166	4.4	2.2					1	4.35	2.63	2.27	2.51	1.52	1.31
0.25	5.8	2.9					2	8.70	5.26	4.55	5.02	3.04	2.62
0.33	7.2	3.6					3	13.04	7.89	6.82	7.53	4.56	3.94
0.50	9.8	4.9	4	2	1.3	1	4	17.39	10.53	9.09	10.04	6.08	5.25
0.75	13.8	6.9	5.6	2.8	1.8	1.4	5	21.74	13.16	11.36	12.55	7.60	6.56
1	16	8	7.2	3.6	2.3	1.8	10	43.48	23.62	22.73	25.10	15.19	13.12
1.5	20	10	10.4	5.2	3.3	2.6	15	65.22	39.47	34.09	37.65	22.79	19.68
2	24	12	13.6	6.8	4.3	3.4	20	86.96	52.63	45.45	50.21	30.39	26.24
3	34	17		9.6	6.1	4.8	25	108.70	65.79	56.82	62.76	37.98	32.80
5	56	28		15.2	9.7	7.6	30	130.43	78.95	68.18	75.31	45.58	39.37
7.5	80	40		22	14	11	50	217.39	131.58	113.64	125.51	75.97	65.61
10	100	50		28	18	14	75	326.09	197.37	170.45	188.27	113.95	98.41
15				42	27	21	100	434.78	263.16	227.27	251.03	151.94	131.22
20				54	34	27	150	652.17	394.74	340.91	376.54	227.91	196.83
25				68	44	34	200	869.57	526.32	454.55	502.06	303.88	262.44
30				80	51	40	250	1,086.96	657.89	568.18	627.57	379.85	328.05
40				104	66	52	300	1,304.35	789.47	681.82	753.09	455.82	393.66
50				130	83	65	400	1,739.13	1,052.63	909.09	1,004.12	607.75	524.88
60				154	103	77	450	1,956.52	1,184.21	1,022.73	1,129.63	683.72	590.49
75				192	128	96	500	2,173.91	1,315.79	1,136.36	1,255.15	759.69	656.10
100				248	165	124	750				1,882.72	1,139.54	984.15
200				480	320	240	1000				2,510.29	1,519.39	1,312.20
							1500				3,765.44	2,279.08	1,968.30
							2000				5,020.58	3,038.77	2,624.40
							2500				6,275.73	3,798.47	3,280.50
							3000				7,530.88	4,558.16	3,936.59



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## WIRE AMPACITY AND PIPE SIZE TABLE

TYPE	MM <sup>2</sup>	AWG	TW	THW	THHN	15 1/2"	20 3/4"	25 1"	32 1-1/4"	40 1-1/2"	50 2"	65 2-1/2"	80 3-1/4"	90 3-1/2"	100 4"	110 4-1/4"	125 5"	150 6"
TW, T	2	14	15	15	25	9	15	25	44	60	99	142						
RUH	3.5	12	20	20	30	7	12	19	35	47	78	111	171					
RUW	5.5	10	30	30	40	5	9	15	26	36	60	85	131	176				
XHHW	8	8	40	45	50	2	4	7	12	17	28	40	62	84	108			
RHW	2	14	15	15	25	6	10	16	29	40	65	98	143	192				
RHH	3.5	12	20	20	30	4	8	13	24	32	53	76	117	157				
THW	5.5	10	30	30	40	4	6	11	19	26	43	61	40	127	163			
	8	8	40	45	50	2	3	5	10	13	22	32	36	66	85	108	133	
	14	6	55	65	70	1	2	4	7	10	16	23	27	48	62	78	97	141
	22	4	70	85	90	1	1	3	5	7	12	17	20	36	47	58	73	106
TW, T	30	2	90	110	115	1	1	2	4	5	9	13	14	27	34	43	54	78
THW	38	1	100	125	130		1	1	2	4	6	9	12	19	25	31	39	57
RUH	50	(1/0)	120	145	150		1	1	2	3	5	8	10	16	21	27	33	49
FEPE	60	(2/0)	135	160	170		1	1	1	3	5	7	9	14	18	23	29	41
RUW	80	(3/0)	160	195	205		1	1	1	2	4	6	7	12	15	19	24	35
RHW	100	(4/0)	185	220	225			1	1	1	3	5	6	10	13	16	20	29
RHH	125	250	210	255	265			1	1	1	2	3	5	8	10	11	14	23
	150	300	240	280	295			1	1	1	2	3	4	7	9	11	14	20
	200	400	280	330	355				1	1	1	2	3	5	7	9	11	16
	250	500	315	375	400				1	1	1	1	3	4	6	7	9	14
	325	600	370	435	470					1	1	1	2	4	5	6	7	11
	400	700	405	485	515					1	1	1		3	4	5	8	9

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