

## 4-inch / Single-Phase / 3-Lead / 75 °C Cable

**Table 32.**

Motor Rating			AWG Copper Wire Size												
Volts	HP	KW	14	12	10	8	6	4	3	2	1	0	00	000	0000
115	1/2	0.37	100	160	250	390	620	960	1190	1460	1780	2160	2630	3140	3770
230	1/2	0.37	400	650	1020	1610	2510	3880	4810	5880	7170	8720	-	-	-
	3/4	0.55	300	480	760	1200	1870	2890	3580	4370	5330	6470	7870	9380	-
	1	0.75	250	400	630	990	1540	2380	2960	3610	4410	5360	6520	7780	9350
	1.5	1.1	190	310	480	770	1200	1870	2320	2850	3500	4280	5240	6300	7620
	2	1.5	150	250	390	620	970	1530	1910	2360	2930	3620	4480	5470	6700
	3	2.2	120	190	300	470	750	1190	1490	1850	2320	2890	3610	4470	5550
	5	3.7	0	110	180	280	450	710	890	1110	1390	1740	2170	2680	3330

**NOTE:** If aluminum wire is used, it must be two sizes larger than copper wire and oxidation inhibitors must be used on connections.

**NOTE:** Shaded cells meet the NEC ampacity requirements for only individual conductors in free air or water. Unshaded cells meet NEC ampacity requirements for either individual conductors or jacketed cable.

## 4-inch / Three-Phase / 3-Lead / 75 °C Cable

**Table 37.**

Motor Rating			Maximum Cable Length (ft) Measured from service entrance to motor																	
			AWG Copper Wire Size													MCM Copper Wire Size				
Volts	HP	KW	14	12	10	8	6	4	3	2	1	0	00	000	0000	250	300	350	400	500
48	1/2	0.37	40	70	110	170	270	420	520	650	790	960	1170	1400	1400	1680	-	-	-	-
100	3/4	0.55	150	140	380	580	900	1400	1710	2110	2570	3120	3790	3790	4510	5360	-	-	-	-
200	1/2	0.37	710	1140	1800	2840	4420	-	-	-	-	-	-	-	-	-	-	-	-	-
	3/4	0.55	510	810	1280	2030	3160	-	-	-	-	-	-	-	-	-	-	-	-	-
	1	0.75	430	690	1080	1710	2670	4140	5140	-	-	-	-	-	-	-	-	-	-	-
	1.5	1.1	310	500	790	1260	1960	3050	3780	-	-	-	-	-	-	-	-	-	-	-
	2	1.5	240	390	610	970	1520	2360	2940	3610	4430	5420	-	-	-	-	-	-	-	-
	3	2.2	180	290	470	740	1160	1810	2250	2760	3390	4130	-	-	-	-	-	-	-	-
	5	3.7	110	170	280	440	690	1080	1350	1660	2040	2490	3050	3670	4440	5030	-	-	-	-
7.5	5.5	0	0	200	310	490	770	960	1180	1450	1770	2170	2600	3150	3560	-	-	-	-	
230	1/2	0.37	930	1490	2350	3700	5760	8910	-	-	-	-	-	-	-	-	-	-	-	-
	3/4	0.55	670	1080	1700	2580	4190	6490	8060	9860	-	-	-	-	-	-	-	-	-	-
	1	0.75	560	910	1430	2260	3520	5460	6780	8290	-	-	-	-	-	-	-	-	-	-
	1.5	1.1	420	670	1060	1670	2610	4050	5030	6160	7530	9170	-	-	-	-	-	-	-	-
	2	1.5	320	510	810	1280	2010	3130	3890	4770	5860	7170	8780	-	-	-	-	-	-	-
	3	2.2	240	390	620	990	1540	2400	2980	3660	4480	5470	6690	8020	9680	-	-	-	-	-
	5	3.7	140	230	370	590	920	1430	1790	2190	2690	3290	4030	4850	5870	6650	7560	8460	9220	-
7.5	5.5	0	160	260	420	650	1020	1270	1560	1920	2340	2870	3440	4160	4710	5340	5970	6500	7510	
380	1/2	0.37	2690	4290	6730	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3/4	0.55	2000	3190	5010	7860	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1	0.75	1620	2580	4060	6390	9980	-	-	-	-	-	-	-	-	-	-	-	-	-
	1.5	1.1	1230	1970	3100	4890	7630	-	-	-	-	-	-	-	-	-	-	-	-	-
	2	1.5	870	1390	2180	3450	5400	8380	-	-	-	-	-	-	-	-	-	-	-	-
	3	2.2	680	1090	1710	2690	4200	6500	8020	9830	-	-	-	-	-	-	-	-	-	-
	5	3.7	400	640	1010	1590	2490	3870	4780	5870	7230	8830	-	-	-	-	-	-	-	-
7.5	5.5	270	440	690	1090	1710	2640	3260	4000	4930	6010	7290	8780	-	-	-	-	-	-	
10	7.5	200	320	510	800	1250	1930	2380	2910	3570	4330	5230	6260	7390	8280	9340	-	-	-	
460	1/2	0.37	3770	6020	9460	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3/4	0.55	2730	4350	6850	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1	0.75	2300	3670	5770	9070	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1.5	1.1	1700	2710	4270	6730	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2	1.5	1300	2070	3270	5150	8050	-	-	-	-	-	-	-	-	-	-	-	-	-
	3	2.2	1000	1600	2520	3970	6200	-	-	-	-	-	-	-	-	-	-	-	-	-
	5	3.7	590	950	1500	2360	3700	5750	-	-	-	-	-	-	-	-	-	-	-	-
7.5	5.5	420	680	1070	1690	2640	4100	5100	6260	7680	-	-	-	-	-	-	-	-	-	
10	7.5	310	500	790	1250	1960	3050	3800	4680	5750	7050	-	-	-	-	-	-	-	-	
15	11	0	340	540	850	1340	2090	2600	3200	3930	4810	5900	7110	-	-	-	-	-	-	