

### THREE PHASE MOTOR MAXIMUM CABLE LENGTH (motor to service entrance) (3)

Motor Rating		Copper Wire Size (1)										
Volts	HP	14	12	10	8	6	4	2	0	00	000	0000
200 V 60 Hz	.5	710	1140	1800	2840	4420						
	.75	510	810	1280	2030	3160						
	1	430	690	1080	1710	2670	4140					
	1.5	310	500	790	1260	1960	3050					
	2	240	390	610	970	1520	2360	3610	5420			
	3	180	290	470	740	1160	1810	2760	4130			
	5	110*	170	280	440	690	1080	1660	2490	3050	3670	4440
	7.5	0	0	200	310	490	770	1180	1770	2170	2600	3150
	10	0	0	0	230*	370	570	880	1330	1640	1970	2390
230 V 60 Hz	.5	930	1590	2350	3700	5760	8910					
	.75	670	1080	1700	2580	4190	6490	9860				
	1	560	910	1430	2260	3520	5460	8290				
	1.5	420	670	1060	1670	2610	4050	6160	9170			
	3	240	390	620	990	1540	2400	3660	5470	6690	8020	9680
	5	140*	230	370	590	920	1430	2190	3290	4030	4850	5870
	7.5	0	160*	260	420	650	1020	1560	2340	2870	3440	4160
	10	0	0	190*	310	490	760	1170	1760	2160	2610	3160
460 V 60 Hz	.5	3770	6020	9460								
	.75	2730	4350	6850								
	1	2300	3670	5770	9070							
	1.5	1700	2710	4270	6730							
	2	1300	2070	3270	5150	8050						
	3	1000	1600	2520	3970	6200						
	5	590	950	1500	2360	3700	5750					
	7.5	420	680	1070	1690	2640	4100	6260				
	10	310	500	790	1250	1960	3050	4680	7050			
575 V 60 Hz	.5	5900	9410									
	.75	4270	6810									
	1	3630	5800	9120								
	1.5	2620	4180	6580								
	2	2030	3250	5110	8060							
	3	1580	2530	3980	6270							
	5	920	1480	2330	3680	5750						
	7.5	660	1060	1680	2650	4150						
	10	490	780	1240	1950	3060	4770					

(3) The portion of the total cable which is between the service entrance and a three phase motor starter should not exceed 25% of the total maximum length to assure reliable starter operation.

Lengths marked \* meet the U.S. National Electrical Code ampacity only for individual conductor 75°C cable. Only the lengths without \* meet the code for jacketed 75°C cable. Local code requirements may vary.