

ELECTRICAL DATA
 MOTOR WIRE SIZING

MOTOR				(a) Recommended Wire Size, AWG		
Hp.	Motor Phase	Volts	Approx. Full Load Amperes	Length of Run in Feet		
				0 - 100	to 200	to 300
¾	1	115	10.0	12	8	6
		230	5.0	12	12	12
	3	230	2.8	12	12	12
		460	1.4	12	12	12
1	1	115	14.0	10	6	6
		230	7.0	12	12	12
	3	230	3.6	12	12	12
		460	1.8	12	12	12
1½	1	115	18.0	8	6	4
		230	9.0	12	12	10
	3	230	5.2	12	12	12
		460	2.6	12	12	12
2	1	115	24.0	8	4	2
		230	12.0	12	10	8
	3	230	6.8	12	12	12
		460	3.4	12	12	12
3	1	115	34.0	6	4	2
		230	17.0	12	8	8
	3	230	9.6	12	12	12
		460	4.8	12	12	12
5	1	115	56.0	4	1	1/0
		230	28.0	10	6	4
	3	230	15.2	12	12	10
		460	7.6	12	12	12
7½	1	230	40.0	8	6	4
	3	230	22.0	10	10	8
		460	11.0	12	12	12
10	3	230	28.0	8	8	8
		460	14.0	12	12	12
15	3	230	42.0	6	6	6
		460	21.0	10	10	10
20	3	230	54.0	4	4	4
		460	27.0	8	8	8
25	3	230	68.0	2	2	2
		460	34.0	6	6	6
30	3	230	80.0	1	1	1
		460	40.0	6	6	6
40	3	230	100.0	2/0	2/0	2/0
		460	52.0	4	4	4
50	3	230	130.0	3/0	3/0	3/0
		460	65.0	2	2	2

(a) Based upon 3% voltage loss copper wire type TW. Single phase motor calculations are based on 2 times distance.