

## 4.0 Motor Data

**Table 4: Electrical connection data**

<b>3 PHASE</b>									
Motor hp	Full Load Amps			Fuse Amps <sup>a</sup>			Minimum Wire Size <sup>b</sup>		
	208V	230V	460V	208V	230V	460V	208V	230V	460V
2	7.82	6.8	3.4	12	10	5.6	14	14	14
3	11	9.6	4.8	17.5	15	8	14	14	14
5	17.5	15.2	7.6	25	25	12	10	12	14
7.5	25.3	22	11	40	30	17.5	8	10	14
10	32.2	28	14	50	40	20	8	8	12
<b>15</b>	<b>48.3</b>	<b>42</b>	<b>21</b>	<b>60</b>	<b>60</b>	<b>30</b>	<b>6</b>	<b>6</b>	<b>10</b>
20	62.1	54	27	90	80	40	4	4	8
25	78.2	68	34	100	100	50	3	4	8
30	92.0	80	40	125	100	60	2	3	8
40	120	104	52	175	150	80	0	1	6
50	150	130	65	200	200	100	000	2/0	4
60	177	154	77	250	200	100	0000	3/0	3
75	221	192	96	300	300	150	300	250	1
100	285	248	124	400	350	175	500	350	2/0
125	359	312	156	500	400	200	2-4/0	600	3/0
150	414	360	180	600	500	250	2-300	2-4/0	3/0
<b>1 PHASE</b>									
Motor hp	Full Load Amps			Fuse Amps			Minimum Wire Size		
	120V	208V	230V	120V	208V	230V	120V	208V	230V
2	24	13.3	12	30	20	17.5	10	---	14
3	34	18.8	17	50	30	25	8	10	10
5	56	31	28	80	50	40	4	8	8
7.5	80	44.2	40	100	70	60	3	8	8
10	---	55.3	50	---	90	60	---	6	6

a. dual element time delay fuse amps

b. normal copper wire with THW, THWN or XHHW insulation

In the above table, all values are based on 1990 NEC. These values are provided as a general guide; however, the information given on the motor nameplate supersedes the above information. Wiring should be done by a certified electrician who is familiar with national, state and local codes. The applicable NEC regulations for switch box access should be followed.