

Wire Gauge Charts

See the charts below to determine the correct wire length and gauge required for your specific size motor.

(1Ø) SINGLE PHASE MOTOR - 110V					
	DISTANCE - OPERATOR TO PANEL (FEET)				
HP	100'	150'	200'	300'	500'
3/4	6 AWG	6 AWG	4 AWG	2 AWG	1 AWG
1	6 AWG	4 AWG	4 AWG	2 AWG	1 AWG

(1Ø) SINGLE PHASE MOTOR - 230V					
	DISTANCE - OPERATOR TO PANEL (FEET)				
HP	100'	150'	200'	300'	500'
3/4	14 AWG	12 AWG	10 AWG	8 AWG	6 AWG
1	12 AWG	10 AWG	10 AWG	8 AWG	6 AWG
1.5	10 AWG	8 AWG	8 AWG	6 AWG	4 AWG
2	10 AWG	8 AWG	8 AWG	6 AWG	4 AWG
3	8 AWG	8 AWG	6 AWG	4 AWG	2 AWG
4	8 AWG	6 AWG	4 AWG	2 AWG	1 AWG
5	8 AWG	6 AWG	4 AWG	2 AWG	1 AWG

(3Ø) THREE PHASE MOTOR - 208 / 230V					
	DISTANCE - OPERATOR TO PANEL (FEET)				
HP	100'	150'	200'	300'	500'
3/4	14 AWG	14 AWG	14 AWG	12 AWG	10 AWG
1	14 AWG	14 AWG	12 AWG	10 AWG	8 AWG
1.5	12 AWG	12 AWG	12 AWG	10 AWG	8 AWG
2	12 AWG	10 AWG	10 AWG	8 AWG	6 AWG
3	10 AWG	10 AWG	8 AWG	6 AWG	4 AWG
4	10 AWG	8 AWG	8 AWG	6 AWG	4 AWG
5	10 AWG	8 AWG	6 AWG	6 AWG	2 AWG
6	8 AWG	6 AWG	6 AWG	4 AWG	2 AWG
7.5	8 AWG	6 AWG	4 AWG	2 AWG	2 AWG
10	8 AWG	6 AWG	4 AWG	2 AWG	1 AWG

(3Ø) THREE PHASE MOTOR - 460V					
	DISTANCE - OPERATOR TO PANEL (FEET)				
HP	100'	150'	200'	300'	500'
3/4	14 AWG	14 AWG	14 AWG	14 AWG	12 AWG
1	14 AWG	14 AWG	14 AWG	14 AWG	12 AWG
1.5	14 AWG	14 AWG	12 AWG	12 AWG	10 AWG
2	14 AWG	14 AWG	12 AWG	12 AWG	10 AWG
3	14 AWG	12 AWG	12 AWG	10 AWG	8 AWG
4	12 AWG	12 AWG	10 AWG	8 AWG	6 AWG
5	12 AWG	12 AWG	10 AWG	8 AWG	6 AWG
6	12 AWG	10 AWG	10 AWG	8 AWG	6 AWG
7.5	12 AWG	10 AWG	8 AWG	6 AWG	4 AWG
10	10 AWG	8 AWG	6 AWG	4 AWG	2 AWG
15	8 AWG	6 AWG	6 AWG	4 AWG	2 AWG

(3Ø) THREE PHASE MOTOR - 460V					
	DISTANCE - OPERATOR TO PANEL (FEET)				
HP	100'	150'	200'	300'	500'
3/4	14 AWG	14 AWG	14 AWG	14 AWG	14 AWG
1	14 AWG	14 AWG	14 AWG	14 AWG	14 AWG
1.5	14 AWG	14 AWG	14 AWG	14 AWG	14 AWG
2	14 AWG	14 AWG	14 AWG	14 AWG	12 AWG
3	14 AWG	14 AWG	14 AWG	14 AWG	12 AWG
4	14 AWG	14 AWG	14 AWG	12 AWG	10 AWG
5	14 AWG	14 AWG	14 AWG	12 AWG	10 AWG
6	14 AWG	14 AWG	12 AWG	10 AWG	8 AWG
10	12 AWG	10 AWG	10 AWG	8 AWG	6 AWG

CAUTION!

- WARRANTY does **NOT** cover improper wire sizing, incorrect power supply or use of a generator.
- Wire tables are the recommended **MINIMUM** wire gauge required for the horsepower application, using less than recommended will limit load abilities of the motor.
- It is **NOT RECOMMENDED** to use a generator with any door installations.
- **USE COPPER WIRE ONLY.**