

# Electrical Connection—



## Recommend Copper Wire Sizes (A.W.G.)

To obtain maximum efficiency from your saw motor, the feeder wire from the power source to the machine should comply with the table below.



**Note:** Always check arbor shaft rotation before installing blade, arbor nuts, or collars.

Wire sizes in this chart are the result of high start up amps.

### Recommended Copper Wire Sizes

	1 Phase	3 Phase	3 Phase	3 Phase
<b><u>Up to 60' from power supply</u></b>	<b>200-240 V</b>	<b>200-240 V</b>	<b>440-480 V</b>	<b>550-600 V</b>
3 hp	#8 AWG	#8 AWG	#10 AWG	#10 AWG
5 hp	#6 AWG	#8 AWG	#10 AWG	#12 AWG
7.5 hp	N/A	#6 AWG	#8 AWG	#10 AWG

	200-240 V	200-240 V	440-480 V	550-600 V
<b><u>60 - 100' From power supply</u></b>	<b>200-240 V</b>	<b>200-240 V</b>	<b>440-480 V</b>	<b>550-600 V</b>
3 hp	#6 AWG	#6 AWG	#8 AWG	#10 AWG
5 hp	#2 AWG	#6 AWG	#6 AWG	#8 AWG
7.5 hp	N/A	#4 AWG	#6 AWG	#6 AWG

	200-240 V	200-240 V	440-480 V	550-600 V
<b><u>100 - 160' From power supply</u></b>	<b>200-240 V</b>	<b>200-240 V</b>	<b>440-480 V</b>	<b>550-600 V</b>
3 hp	#4 AWG	#4 AWG	#6 AWG	#8 AWG
5 hp	#0 AWG	#2 AWG	#6 AWG	#6 AWG
7.5 hp	N/A	#2 AWG	#4 AWG	#6 AWG

	200-240 V	200-240 V	440-480 V	550-600 V
<b><u>Over 160' From power supply</u></b>	<b>200-240 V</b>	<b>200-240 V</b>	<b>440-480 V</b>	<b>550-600 V</b>
3 hp	#2 AWG	#2 AWG	#4 AWG	#4 AWG
5 hp	#00 AWG	#2 AWG	#2 AWG	#4 AWG
7.5 hp	N/A	#0 AWG	#2 AWG	#2 AWG



**Note:** Wire too large to insert into the provided magnetic starter will need to be terminated in a fused disconnect and #10 wire ran into the magnetic starter using less than 10 feet of cable.

### Recommended Fuse / Breaker Size

(Located in the disconnect enclosure)

	1 Phase	3 Phase	3 Phase	3 Phase
	<b>200-240 V</b>	<b>200-240 V</b>	<b>440-480 V</b>	<b>550-600 V</b>
3 hp	60 AMP	20 AMP	20 AMP	20 AMP
5 hp	90 AMP	30 AMP	20 AMP	20 AMP
7.5 hp	N/A	45 AMP	20 AMP	20 AMP