



Power
Your
Vision

Phase Convertor Ratings Document

Phase Convertor Hp	3hp	5hp	7.5hp	10hp	15hp	20hp	25hp	30hp	40hp	50hp	60hp
Single Phase Input Breaker Recommendation	20 Amps	30 Amps	40 Amps	50 Amps	80 Amps	100 Amps	125 Amps	150 Amps	200 Amps	250 Amps	300 Amps
Single Phase Input Breaker Minimum *Derate Output*	10 Amps	10 Amps	15 Amps	20 Amps	30 Amps	40 Amps	50 Amps	80 Amps	100 Amps	125 Amps	150 Amps
Single Phase Input Wire Size Recommendation	#10 AWG	#10 AWG	#8 AWG	#6 AWG	#4 AWG	#2 AWG	#1/0 AWG	#2/0 AWG	#2/0 AWG	#4/0 AWG	300 MCM
Three Phase Output Resistive and Inductive Load (Amps)	4 Amps	7 Amps	11 Amps	15 Amps	20 Amps	25 Amps	30 Amps	37 Amps	50 Amps	61 Amps	72 Amps
Three Phase Output Resistive and Inductive Load (VA)	1.4 VA	2.4 VA	5.0 VA	6.0 VA	8.0 VA	11.0 VA	15.0 VA	20.0 VA	25.0 VA	30.0 VA	36.0 VA
Three Phase Output Resistive and Inductive Load (KW)	1.1 KW	1.7 KW	2.2 KW	3.7 KW	5.6 KW	7.7 KW	9.5 KW	11.8 KW	15.5 KW	21.5 KW	26.5 KW
Three Phase Output Resistive and Inductive Load (Spindle HP)	1.5 HP	2.5 HP	3 HP	5 HP	7.5 HP	10 HP	12 HP	15 HP	20 HP	25 HP	30 HP
Three Phase Output Wire Size Recommendation	#12 AWG	#12 AWG	#10 AWG	#10 AWG	#8 AWG	#6 AWG	#4 AWG	#4 AWG	#2 AWG	#1 AWG	#2/0 AWG
Three Phase Output Fuse Size Recommendation	10 Amps	15 Amps	20 Amps	30 Amps	45 Amps	55 Amps	65 Amps	80 Amps	100 Amps	120 Amps	150 Amps



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LIGHT LOADS

1X

This category of machine includes any low power saws or drills as well as any machines undergoing light, short term loads.

This category includes:

- Bridge Port Mills
- Drill Presses
- Band Saws
- Power Feeders / Conveyors
- Jointers
- Overhead Hoists
- Small Belt/Disk Sanders
- Tire Balancers

MEDIUM LOADS

1.5X

This category of machine includes any which use high speed motors or pulley/gear speed increasers.

This category includes:

- Lathes
- Table Saws
- Surface Grinders
- Planers
- Molders
- Fans/Exhausts
- Radial Arm Saws
- Chop Saws
- Shapers

HEAVY LOADS

2X

This category of machine includes any undergoing heavy constant loads. This is also the safest option since underpowering equipment could cause damage to the system.

This category includes:

- HVAC Systems
- CNC Equipment
- Air Compressors
- Hydraulic/Water Pumps
- Vacuum Pumps
- Dust Collectors
- Wide Belt Sanders
- Auto Lifts
- Iron Workers
- Meat Grinders
- Mixers
- Grain Augers
- Grain Dryers