

Single Phase Power Supply



Common Bus Solutions



BONITRON

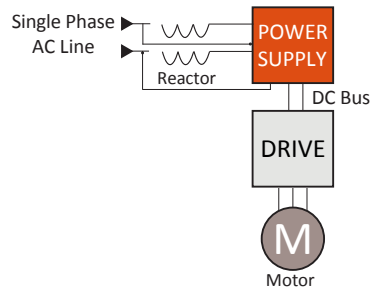
M3712 Series

The M3712 Single Phase Power Supply is a low-cost solution for powering 3-phase AC drives from a single phase source.

3-phase motors are the economical choice for motor applications above 10 horsepower, however many locations only have single phase power available due to the cost of expanding 3-phase availability.

To increase efficiency in motor-driven applications, variable frequency drives (VFDs) can be used to control 3-phase motors. VFDs offer advantages such as soft starting, speed regulation, and increased efficiency. Most VFDs are not designed for single phase operation, and even those that are must be oversized by up to 300% when operated from a single phase source.

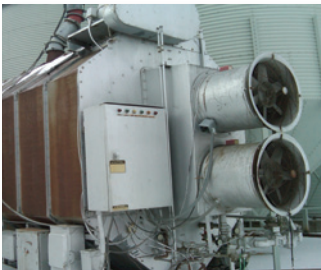
Fortunately, there is no longer a need to oversize 3-phase drives when using them in single phase applications thanks to the Bonitron M3712 Single Phase Power Supply. The M3712 has a single phase AC input and serves as a power supply for one or multiple drives via DC bus terminal connections. In addition, the M3712 aids in protecting your drive from the high currents caused by single phase operation, which allows your drive to run cooler and longer.



Product Highlights

- Power one or multiple 3-phase drives from single phase source
- No need to derate drive for single phase operation
- Power drives via DC +/- connection
- Added bus capacitance and filtering
- Soft start-up to drives for increased reliability
- UL Listed
- Integrated precharge

Industry Applications



Grain Dryers



Pivot Irrigation



Pump Jacks



Sawmills



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New! Single Phase Line Regen

M3545 Series



- Single or 3-Phase Applications
- 208 - 480 VAC
- 3-Phase Ratings
 - 15A Cont., 22.5A Peak for 60 Seconds
- Single Phase Ratings
 - 5A Cont., 7.5A Peak for 60 Seconds

3-Phase Common Bus Power Supply

M3713 Series



- Serves as main power supply in common DC bus systems
- Allows standard drives to meet IEEE 519 compliance with proper configuration
- Available with or without precharge




*Ideal for remote applications
such as irrigation pumps*

Specifications

Input Voltage.....208 - 480VAC
System Horsepower.....30 to 125 Hp
Intermittent Duty Limit...150% Full Load Rating
 for 60 seconds
Precharge Ramp
Current Limit.....20% Full Load Rating
Overcurrent Limit.....200% Full Load Rating
Operating Temp.....Derate unit 1% per every
 1°C above 40°C
Storage Temp.....-20 to +65 °C
Control I/O.....Inputs: Enable
 Outputs: Ready
Indicators.....Power, Ready, Status

Model Selection

Line Reactor Required. Available from Bonitron.

	Power (Nominal)	Model Number	Output Current	Input Current (AC RMS)	Dimensions (H x W x D)	
208 - 240 VAC Drives						
	30 HP	M3712-L030	100 A	175 A	20.00" x 7.12" x 10.30"	
	50 HP	M3712-L050	160 A	285 A	20.00" x 7.12" x 10.30"	
	75 HP	M3712-L075	290 A	550 A	25.00" x 10.00" x 10.20"	
	125 HP	M3712-L125	360 A	670 A	32.10" x 14.00" x 12.20"	
460 - 480 VAC Drives						
	30 HP	M3712-H030	55 A	115 A	20.00" x 7.12" x 10.30"	
	50 HP	M3712-H050	90 A	185 A	20.00" x 7.12" x 10.30"	
	75 HP	M3712-H075	135 A	250 A	25.00" x 10.00" x 10.20"	
	125 HP	M3712-H125	200 A	365 A	32.10" x 14.00" x 12.20"	

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