

3 - Phase Power Supply



12 & 18 Pulse
Solutions



Specifications

BONITRON

M3713 Series

The Bonitron M3713 series is a non-regenerative AC to DC rectifier that can serve as the power supply for your 12 or 18-Pulse system.

The M3713 can also be used as a building block for 12 and 18 pulse systems using standard VFDs. These systems mitigate harmonics and other power quality issues. **Multiple M3713 units used with a phase shifting transformer allows standard drives to meet IEEE 519 compliance.**

Multiple M3713 Power Supplies can be used in parallel for high power applications, as well as for redundancy and increased process reliability.

Product Highlights

- Serves as main power supply
- Allows standard drives to meet IEEE 519 compliance with proper configuration
- Available with or without precharge
- Diagnostic indicators

Industry Applications

12 and 18 Pulse Converters

- IEEE 519 compliance
- Pumps
- Fans
- HVAC
- Water/wastewater

M3713SC

230-240 VAC, 460-480 VAC, 575-600 VAC	Input Voltage	230-240 VAC, 460-480 VAC, 575-600 VAC
150% Full Load Rating for 60 seconds	Intermittent duty Limit	150% Full Load Rating for 60 seconds
20% Full Load Rating	Precharge Ramp Current Limit	N/A
175% Full Load Rating	Overload Limit	N/A
24V+ Sinking Precharge Enable Run Enable	Control Inputs	N/A
250VAC, 120mA Max Precharge Complete Ready	Control Outputs	250VAC @ 120mA 110VAC @500mA Overtemp (NC)
Power, Ready, Status	Indicators	Power

M3713DM

***Note: Depending on VFD used, Pre-charge may or may not be required**



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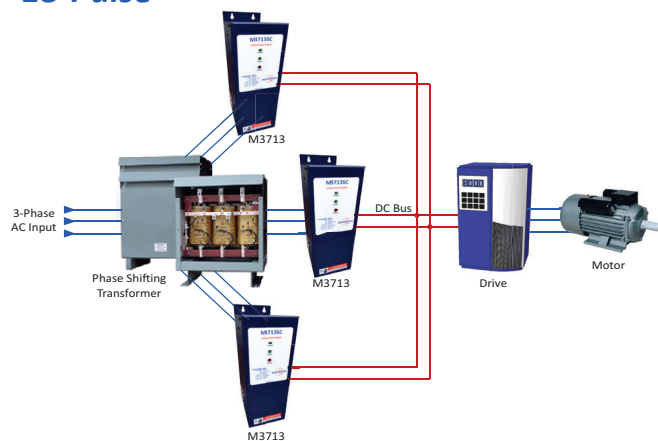
615-244-2825

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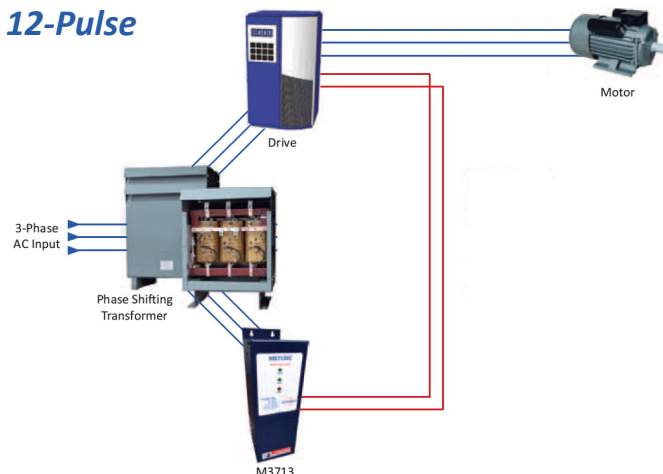


Configurations

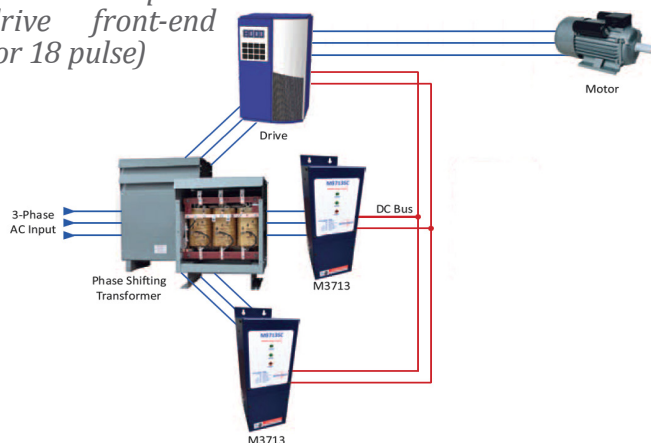
18-Pulse



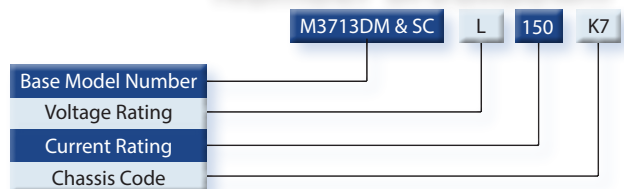
12-Pulse



(Or use 2 M3713 units with 6-pulse drive front-end for 18 pulse)



Model Number Breakdown



Model Number Selection

Up to 3 units can be in parallel for higher current requirements.

Model Number	6-PULSE (One Unit)		12-PULSE (Two Units)		18-PULSE (Three Units)	
	Nominal Drive HP	DC Output Current (Amps)	Nominal Drive HP	DC Output Current (Total Amps)	Nominal Drive HP	DC Output Current (Total Amps)
230 - 240VAC						
M3713SC**-L30-B5	7.5	30	12.5	55	20	80
M3713SC**-L75-B5	20	75	35	135	50	200
M3713SC**-L150-K7	50	150	90	270	135	400
M3713SC**-L225-K7	75	225	135	405	200	600
M3713SC**-L375-K10	125	375	225	675	335	1000
460 - 480VAC						
M3713SC**-H30-B5	15	30	25	55	40	80
M3713SC**-H75-B5	40	75	70	135	100	200
M3713SC**-H150-K7	100	150	180	270	270	400
M3713SC**-H225-K7	150	225	270	405	400	600
M3713SC**-H375-K10	250	375	450	675	675	1000

**will be SC or DM depending on need for Pre-Charge.