M3464
PWM to Sine Wave Filter Module

Undervoltage Solutions for AC Drives

There are many industry applications that utilize low horsepower, IGBT type, PWM Drives. Newer versions of these PWM drives typically have very fast transistor rise times and high carrier frequencies. When used with motors that have moderate to long cable lengths, high voltages caused by reflected waves might be present. Users of these drives may experience problems with their systems such as:

- Premature motor winding failures
- Premature motor bearing failures
- Cable insulation failures
- Drive ground fault problems
- Noise interference in analog signal transducers
- Noise interference in RF communication systems

One way to alleviate these problems is to use filtering. Bonitron manufactures PWM to Sine Wave Filter Modules for use with low horsepower, IGBT, PWM drives. The M3464 series is available for use with PWM drives rated up to 575 VAC. Multiple boards can be combined in parallel configurations to achieve higher motor current ratings as needed.

Features

- For use with PWM drives rated up to 575 VAC
- Units are available for single phase and 3-phase delta or wye configurations
- Can be used at any V / Hz ratio
- L/C type filtering

Advantages

- Single board solution
- Smooths voltage and current to the connected motor load of a variable speed drive
- Units can be added in parallel configurations to achieve higher current ratings as needed.
- Less generation noise

Benefits

- Minimizes downtime
- Numerous chassis and specifications combinations to find what best meets your needs
- Compact size
- Reduces interference

Industry Applications

Automotive.....Pick and Place
Paint Booths
Assembly Lines
Glass Handling
Downhill Conveyers
Elevators.....Industrial Elevators
Cranes.....Shipyard Cranes
Industrial Hoists
Food Processing.....Food Bi-product Separating
Pharmaceutical.....Centrifuges
Railroad.....Rail Dumping Cars
Testing.....Dynamometers
Sports Stadiums.....Retracting Stadium Ceilings
Fibers.....Web Presses
Printing.....Paper Roller
Tension Controllers

Dimensions

Chassis	(H x W x D)	Type
L2	Open	
L3	Open	
B4	17.75 x 4 x 9”	TYPE-1
B7	17.75 x 4 x 9”	TYPE-1
M3	12.75 x 3 x 9”	TYPE-1
M4	12.75 x 3 x 9”	TYPE-1
M7	12.75 x 3 x 9”	TYPE-1
FD	Components on Chassis	

M3464 Model Number Selection Table

Model Number	Max Drive Voltage	Drive Hp Rating @ Full Voltage	Motor current @ 8kHz carrier	Motor current @ 4kHz carrier	Chassis
M3464-L01-F7-L2	230	0.25	1	0.75	L2
M3464-L04-F7-L2-LD	230	1	4	3	L2
M3464-L01-F7-M3	230	0.25	1	0.75	M3
M3464-L04-F7-M3-LD	230	1	4	3	M3
M3464-H08-F9-L3	460	5	8	6	L3
M3464-H08-F9-M3	460	5	8	6	M3
M3464-H16-2F9-M7	460	10	16	12	M7
M3464-H24-3F9-B7	460	20	24	18	B7
M3464-C24-FD-B7	575	25	24	18	B7
M3464-C32-FD-B7	575	40	32	24	B7
M3464-H050-FD	460	40	50	37.5	FD
M3464-H100-FD	460	75	100	75	FD
M3464-C150-FD	575	125	150	112.5	FD
M3464-C200-FD	575	150	200	150	FD
M3464-C360-FD	575	250	360	270	FD

521 Fairground Court | Nashville, TN 37211-2008 | U.S.A.
Monday - Friday 8:00 - 5:00pm CST | Phone 615-244-2825
Email - info@bonitron.com | Fax 615-244-2833 | www.bonitron.com