



M3484

Industrial Line Noise Filter

SOLUTIONS FOR AC DRIVES



Bonitron's Model M3484 line filters are designed to be used in applications where power electronic devices experience problems from line harmonics, capacitor switching transients and DC drive notching. Typically, devices with these problems have overvoltage faults. The problems are more severe when the devices are in a standby or lightly loaded mode. For this reason, chokes alone are unable to filter the transients.

The Bonitron M3484 modules are composed of resistor, diode, and capacitive elements offering electrical damping of continuous and intermittent transients. (Each device includes 2 parallel filters, one for spikes and one for notches.) The transient/harmonic energy is dissipated in the resistors. The units are protected by a combination of fusing and thermal protection.

The filters require some impedance (at least 5%) between the noise source and their point of installation for proper filtering. Usually, existing AC chokes or system transformers provide this impedance.

FEATURES

- Simple wiring
- Side mount fan
- TYPE-12 & TYPE-3R chassis available

M3484 SPECIFICATIONS

Connections.....Input AC Line:
3-Phase, 230 or 460 VAC
+/-10% 50/60 Hz
Ground
Operating Temperature...0 to +40 C°
Storage Temperature.....-20 to +65 C°
Humidity.....Below 90%, Non-
Atmosphere.....condensing
Free of Corrosive Gas &
Indicators.....Dust
Adjustments.....Door Mounted Power Light
Auxiliary Contact.....None
Indicates if unit is off-line
Thermal Overload.....due to thermal overload
Disconnects from line at

ADVANTAGES

- Filters without shifting the resonant frequency of the electrical system
- Provides additional system kVAR for power factor correction and KVA demand reduction

BENEFITS

- Minimizes downtime due to drive trips from harmonic reductions
- Protects sensitive equipment
- Single module solution

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INDUSTRY APPLICATIONS

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



M3484 MODEL NUMBER SELECTION TABLE

Model Number	Filter	Phases	Input Volts	Dissipation	Branch Capacitance	kVAR @60 Hz	Fuse Amps
M3484S1-L02C50	Single	1	230	200	50 uF	1	15
M3484S1-H02C50	Single	1	460	200	50 uF	4	15
M3484S2-L04C50	Single	1	230	400	50 uF	2	35
M3484S2-H04C50	Single	1	460	400	50 uF	8	35
M3484D3-L06C50	Delta	3	230	600	50 uF	3	30
M3484D3-H06C50	Delta	3	460	600	50 uF	12	30
M3484D3-L12C50	Delta	3	230	1200	50 uF	3	40
M3484D3-H12C50	Delta	3	460	1200	50 uF	12	40
M3484D3-C06C50	Delta	3	575	600	50 uF	19	40



DIMENSIONS

Chassis	(H x W x D)	Chassis Type
J21	16 x 14 x 8"	TYPE-12
F16	18 x 18 x 10"	TYPE-3R

AVAILABLE IN TYPE-12 (INDOOR) OR TYPE-3R (OUTDOOR) ENCLOSURES.