Noise Filter

MB13-SERIES



Features

- (1)Block Terminal with Cover Simple wire connection by block terminal. High safety by terminal cover. (2)Three Phase Power Line Filter
- (2) Three Phase Power Line Filter Available for Star connection: 400Vac line-line Available for Delta connection: 200Vac line-line (3) High Attenuation in Compact Package

Safety standard

71 UL1283.

SA Std. C22. 2 No. 8

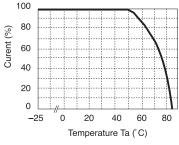
EN133200 (New European Standard)

Specifications

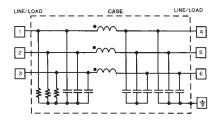
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ITEMS		MB1310	MB1320	MB1330	MB1340	MB1350
1 Rated Voltage (AC)		500V(50/60Hz)				
2 Rated Current (AC) (Note 1)		10A	20A	30A	40A	50A
3 Test Voltage		2500VAC(20mA) Terminal to case, 1min. at 25°C, 70%RH				
4 Isolation Resistance		100M Ω min. Terminal to case, 500VDC at 25°C, 70%RH				
5 Leakage Current	250V 60Hz	1.0mA max.				
	500V 60Hz	2.0mA max.				
6 DC Resistance		80m Ω max.	30m Ω max.	20m Ω max.	11m Ω max.	7m Ω max.
7 Temperature Rise		35°C max.				
8 Operating Temperature		−25°C~+85°C				
9 Operating Humidity		30%~95% RH (No Dewdrop)				
10 Storage Temperature		-40°C~+85°C				
11 Storage Humidity		10%~95% RH (No Dewdrop)				
12 Vibration		10~55~10Hz,Amplitude (Sweep for 1min) 1.5mm(9G max.) X,Y,Z 2 hours each				
13 Safety Standard		Bilt to meet : UL1283,CSA C22.2 No.8, EN133200				
14 Weight (typ)		1800g	1800g	1800g	2800g	2800g
15 MTBF(hours) (Note 2)		573,000	480,000	521,000	421,000	395,000
	Rated Voltage (AC Rated Current (AC Test Voltage Isolation Resistan Leakage Current DC Resistance Temperature Rise Operating Temper Operating Humidit Storage Temperat Storage Humidity Vibration Safety Standard Weight (typ)	Rated Voltage (AC) Rated Current (AC) (Note 1) Test Voltage Isolation Resistance Leakage Current 250V 60Hz 500V 60Hz DC Resistance Temperature Rise Operating Temperature Operating Humidity Storage Temperature Storage Humidity Vibration Safety Standard Weight (typ)	Rated Voltage (AC) Rated Current (AC) (Note 1) Test Voltage Isolation Resistance Leakage Current 250V 60Hz 500V 60Hz DC Resistance Temperature Rise Operating Temperature Operating Humidity Storage Temperature Storage Humidity Vibration Safety Standard Weight (typ) 10A	Rated Voltage (AC) Rated Current (AC) (Note 1) 10A 20A 2500VAC(20mA) To 150	Rated Voltage (AC) S00V(50/60Hz) Rated Current (AC) (Note 1) 10A 20A 30A Test Voltage 2500VAC(20mA) Terminal to case, 1mir Isolation Resistance 100MΩ min. Terminal to case, 500VDC Leakage Current 250V 60Hz 1.0mA max. 500V 60Hz 2.0mA max. DC Resistance 80m Ω max. 30m Ω max. 20m Ω max. Temperature Rise 35°C max. Operating Temperature -25°C~+85°C Operating Humidity 30%~95% RH (No Dewd Storage Temperature -40°C~+85°C Storage Humidity 10%~95% RH (No Dewd Vibration 10~55~10Hz,Amplitude (Sweep for 1min) 1.5mm() Safety Standard Bilt to meet : UL1283,CSA C22.2 No Weight (typ) 1800g 1800g	Rated Voltage (AC) S00V(50/60Hz)

(Note1): Value for Ta ≤ 50°C. For Ta>50°C derate according to the derating curve shown below. (Note2): Calculated based on the part stress analysis prediction method as specified in MIL-HDBK-217F.

DERATING



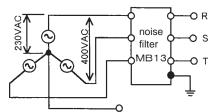
CIRCUIT



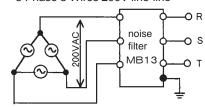
APPLICATIONS

Star connection

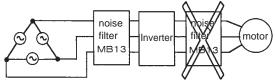
3 Phase 4 Wires 400V line-line. Unused Neutral line



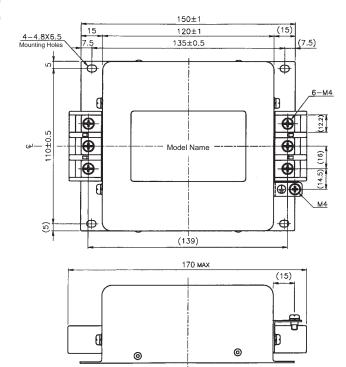
Delta Connection 3 Phase 3 Wires 200V line-line

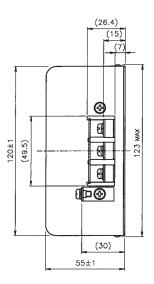


Note: For inverter application Do not use MB series between inverter and motor.



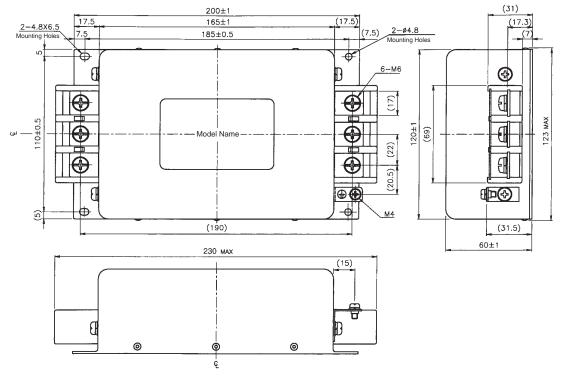
- **MB1310**
- MB1320
- MB1330





■ MB1340 ■ MB1350

Noise Filter



(Unit: mm)

MB13-SERIES

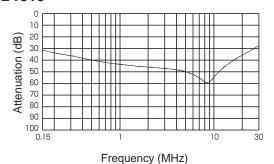
LAMBDA DENSEI-LAMBDA

CHARACTERISTICS

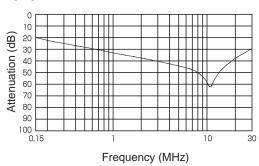
■ Typical Insertion Loss

(1) Asymmetrical

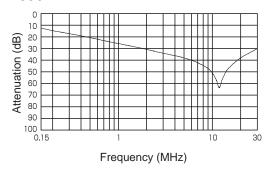
MB1310



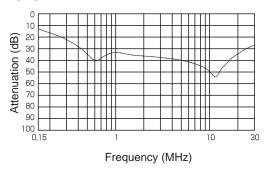
MB1320



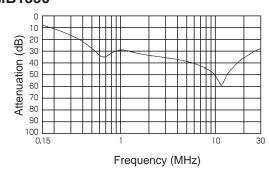
MB1330



MB1340



MB1350

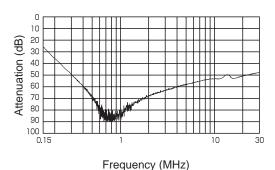


CHARACTERISTICS

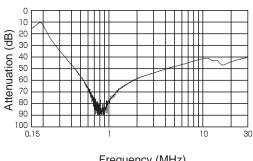
■ Typical Insertion Loss

(2) Symmetrical

MB1310

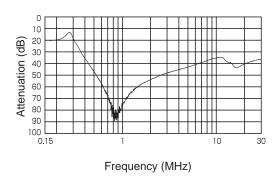


MB1320

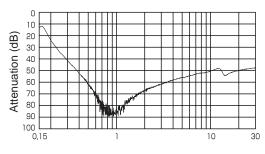


Frequency (MHz)

MB1330



MB1340



Frequency (MHz)

MB1350

