



### Features

- (1) Block Terminal with Cover  
Simple wire connection by block terminal.  
High safety by terminal cover.
- (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

- UL1283,
- CSA Std. C22. 2 No. 8
- EN133200 (New European Standard)

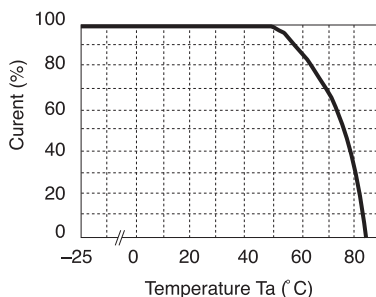
### Specifications

| ITEMS                         | MODEL     | 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        |           | 100MΩ 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            |           | Built 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   |

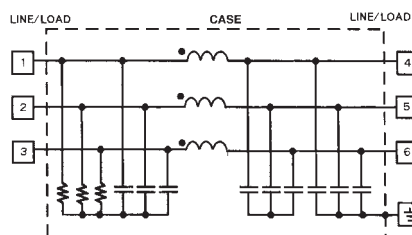
(Note1): Value for  $T_a \leq 50^\circ\text{C}$ . For  $T_a > 50^\circ\text{C}$  derate according to the derating curve shown below.

(Note2): Calculated based on the part stress analysis prediction method as specified in MIL-HDBK-217F.

### DERATING

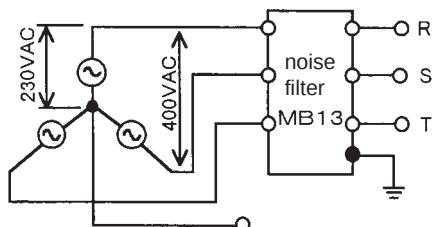


### CIRCUIT

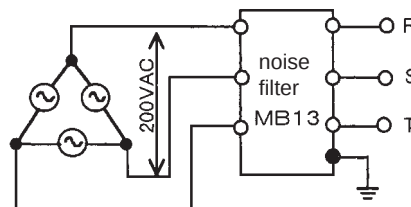


### APPLICATIONS

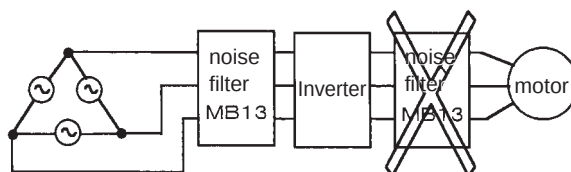
**Star connection**  
3 Phase 4 Wires 400V line-line. Unused Neutral line



**Delta Connection**  
3 Phase 3 Wires 200V line-line

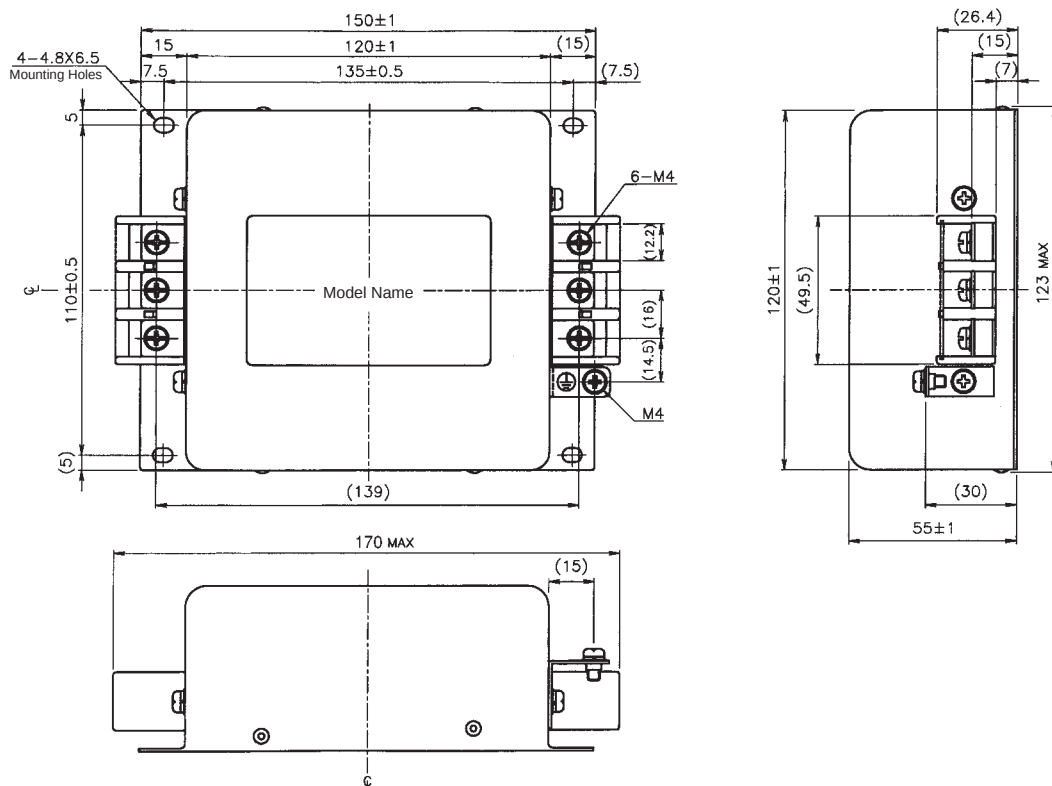


Note: For inverter application  
Do not use MB series between  
inverter and motor.

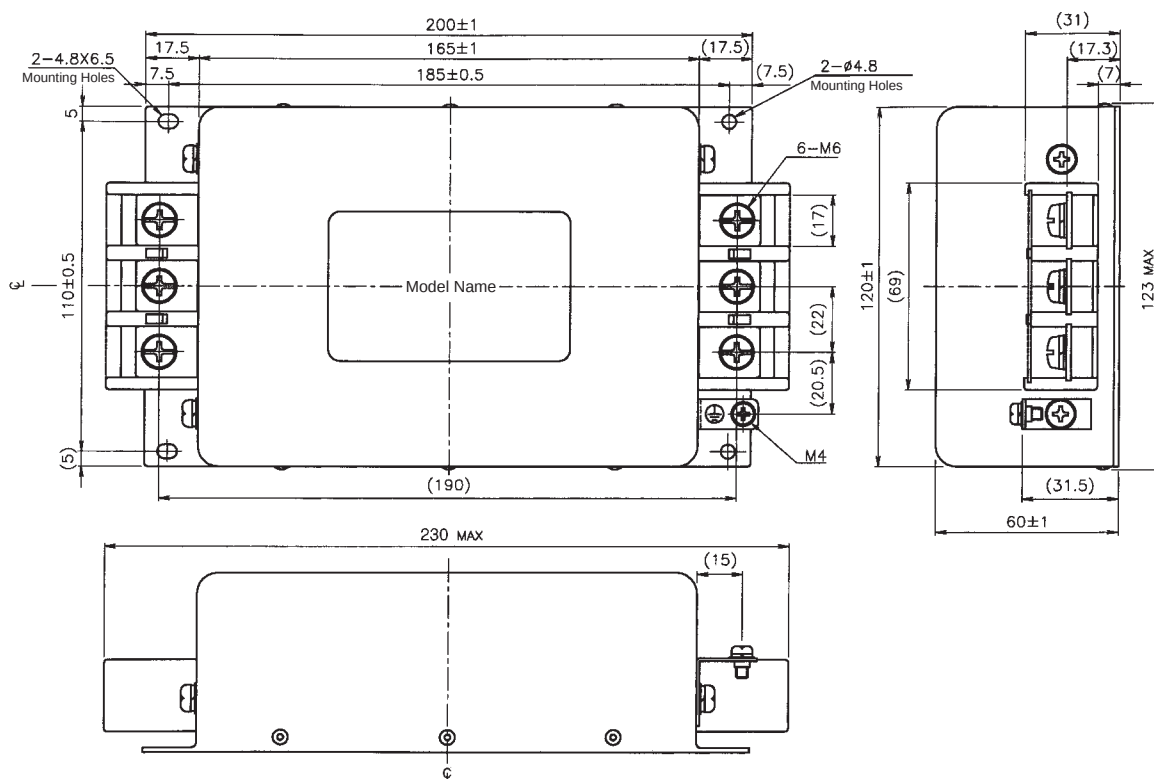


# MB13-SERIES

- MB1310
- MB1320
- MB1330



- MB1340
- MB1350



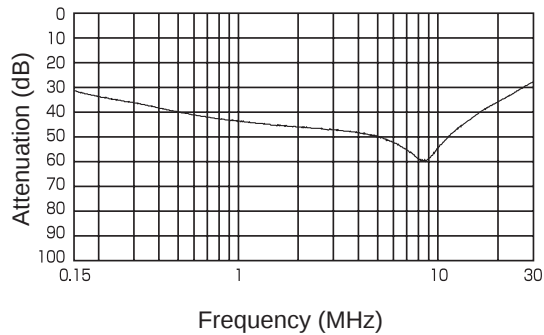
(Unit: mm)

## CHARACTERISTICS

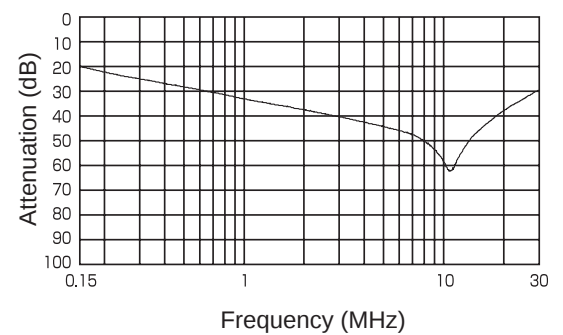
### ■ Typical Insertion Loss

(1) Asymmetrical

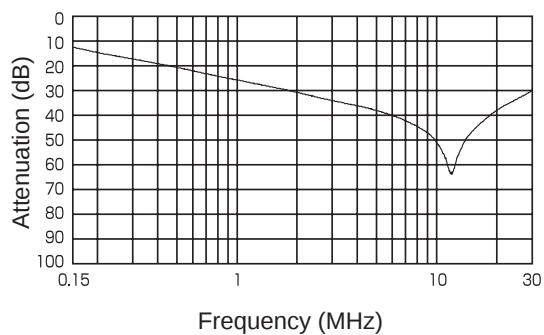
#### MB1310



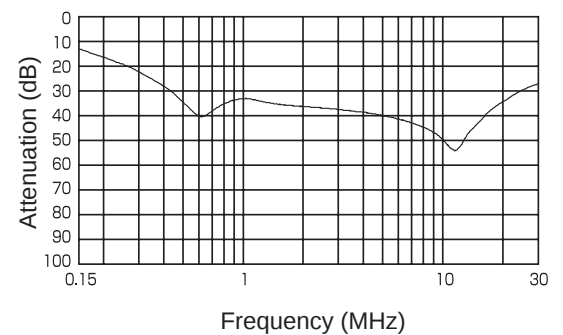
#### MB1320



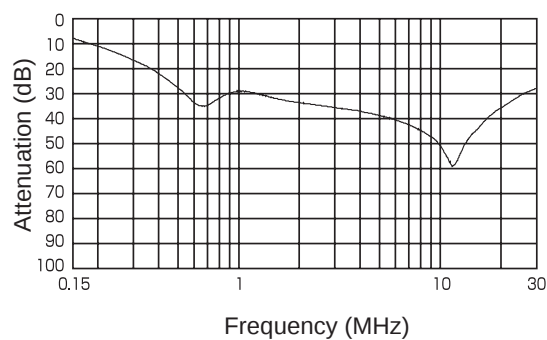
#### MB1330



#### MB1340



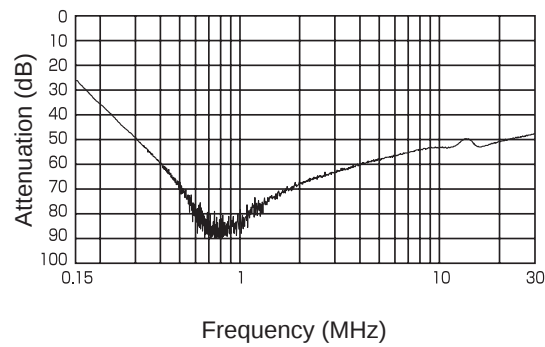
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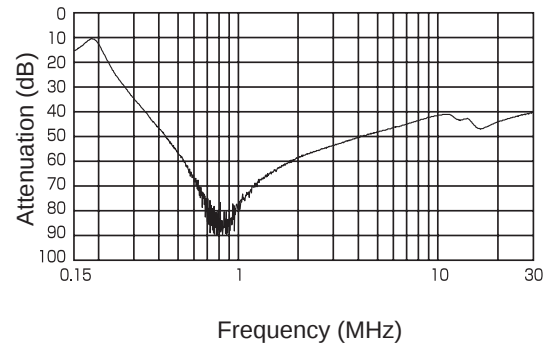
CHARACTERISTICS

■ Typical Insertion Loss  
(2) Symmetrical

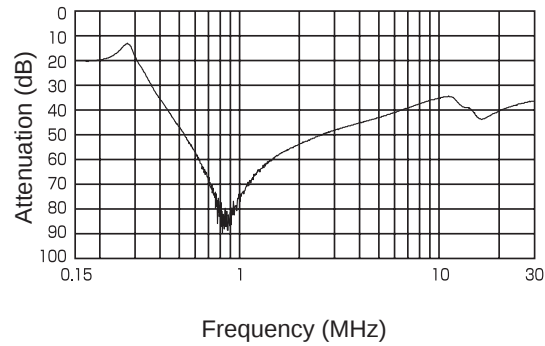
MB1310



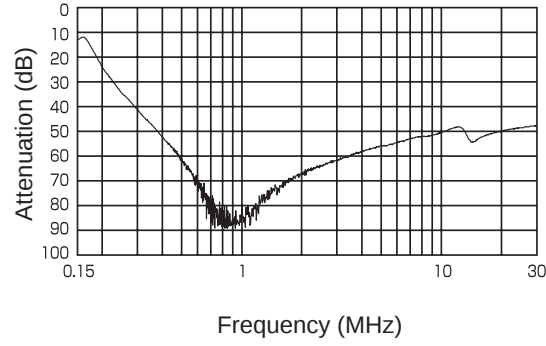
MB1320



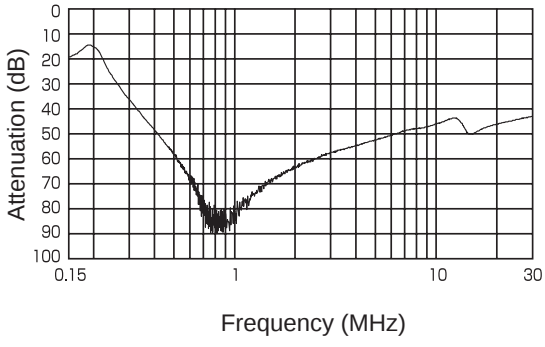
MB1330



MB1340



MB1350



Noise Filter