



## ■ Features

- (1) 2 mounting options :  
MC13\*\* Screw mounting type  
MC13\*\*DIN Din rail mounting type
- (2) Worldwide compliance :  
Voltage rating 3 phase AC500V, 10, 20, 30A
- (3) Safe design :  
Terminal with cover, Low leakage current
- (4) Environmental compliance : Lead free soldering

## ■ Safety standard

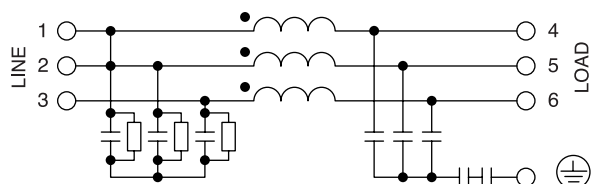
-  UL1283  
 CSA Std. C22. 2 No. 8  
 EN133200

## ■ Specifications

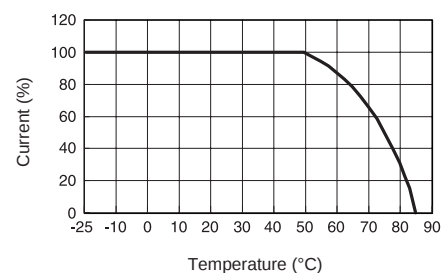
| Items | Model                                                  |            | MC1306                                                                                                                   | MC1310    | MC1320    | MC1330    |
|-------|--------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------|-----------|-----------|-----------|
|       | STD type                                               | DIN type   | MC1306DIN                                                                                                                | MC1310DIN | MC1320DIN | MC1330DIN |
| 1     | Rated Voltage (AC)                                     |            | 500V (50/60Hz)                                                                                                           |           |           |           |
| 2     | Rated Current (*1)                                     |            | 6A                                                                                                                       | 10A       | 20A       | 30A       |
| 3     | Test Voltage (terminals to base plate, 1min AC)        |            | 2000V (100mA) at 25°C, 70% RH                                                                                            |           |           |           |
| 4     | Isolation Resistance (terminals to base plate, 500VDC) |            | 100MΩ min at 25°C, 70% RH                                                                                                |           |           |           |
| 5     | Leakage Current                                        | 500V, 60Hz | 5.0mA max                                                                                                                |           |           |           |
| 6     | DC Resistance (three lines)                            |            | 90mΩ max                                                                                                                 | 68mΩ max  | 23mΩ max  | 11mΩ max  |
| 7     | Temperature Rise                                       |            | 30°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                                              | MC13**     | At no operating 10~55~10Hz, Amplitude (Sweep for 1min) 0.825mm constant (Maximum 49.0m/s <sup>2</sup> ) X,Y,Z 1hour each |           |           |           |
|       |                                                        | MC13**DIN  | At no operating 55~250~55Hz, Acceleration (Sweep for 1min) 19.6m/s <sup>2</sup> , X,Y,Z 1hour each                       |           |           |           |
| 13    | Weight                                                 |            | 600g                                                                                                                     |           |           |           |

(Note) : Value for Ta≤50°C For Ta>50°C derate according to the derating curve shown on the right.

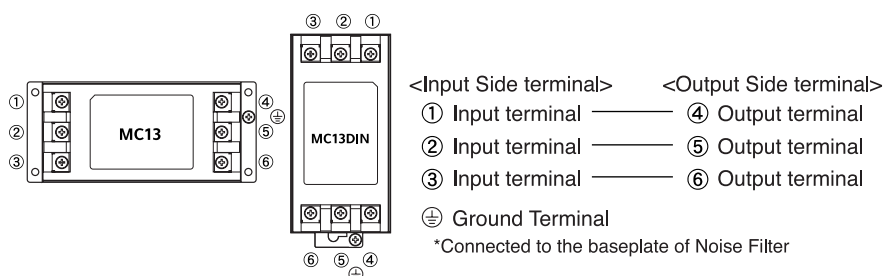
## ■ Circuit



## ■ Derating



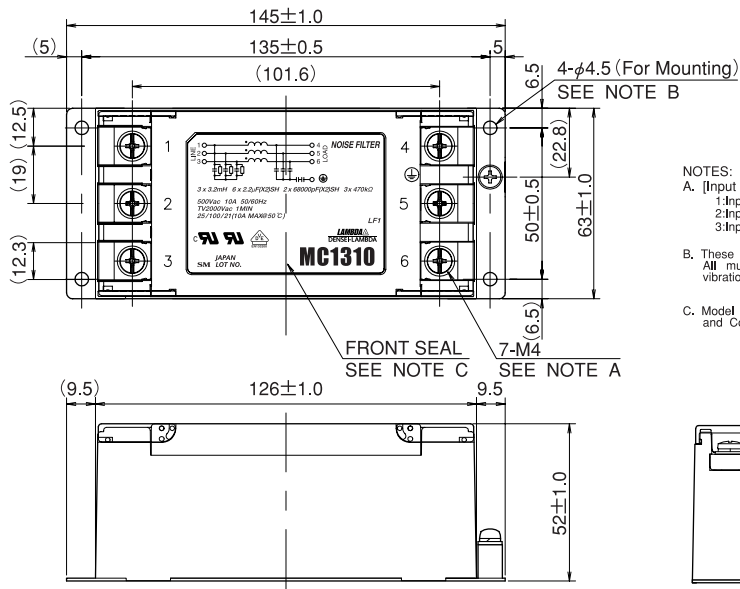
## ■ Terminal Explanation



- Request customer specification for further details of specifications, outline, characteristics, etc.  
Read the instruction manual before usage.
- Contact us about delivery before ordering.

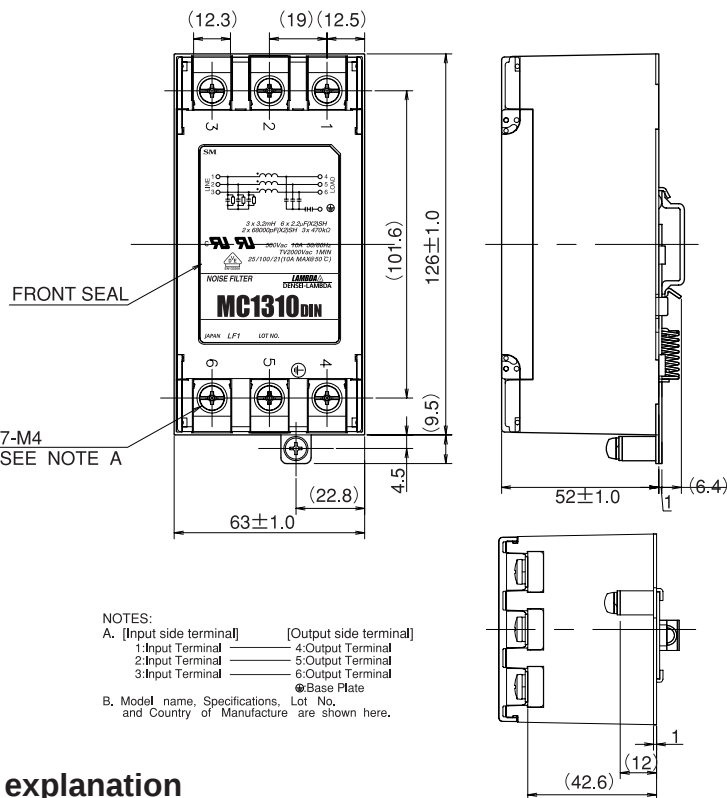
# MC13-SERIES

## MC13\*\*



- NOTES:
- A. [Input side terminal] [Output side terminal]  
 1: Input Terminal 4: Output Terminal  
 2: Input Terminal 5: Output Terminal  
 3: Input Terminal 6: Output Terminal  
 ●: Base Plate
- B. These are for customer's chassis mounting. All must be screwed in order to conform the vibration spec.
- C. Model name, Specifications, Lot No. and Country of Manufacture are shown here.

## MC13\*\*DIN

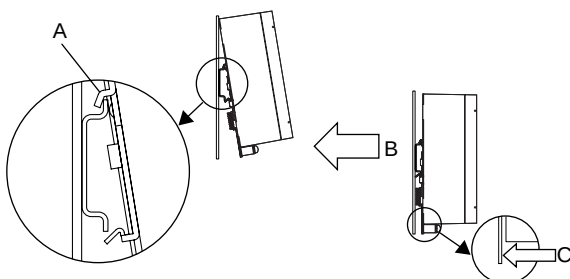


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## MC13\*\*DIN explanation

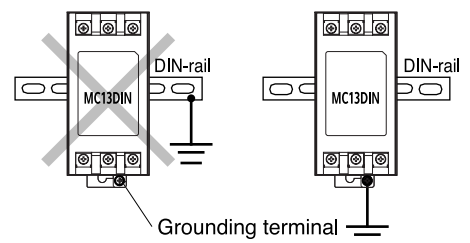
### \*Mounting

MC13\*\*DIN could be mounted on 35mm wide (TS35 type) Din-rail. For mounting, put the part (A) of the unit over the top hat rail and push forward like (B), so that the rail stopper is firmly held on the Din-rail. For unmounting, put a screw driver into the part (C) and lift it up to remove the unit.



### \*Ground

Do not earth with Din-rail. Earth directly from the ground terminal of MC13\*\*DIN.

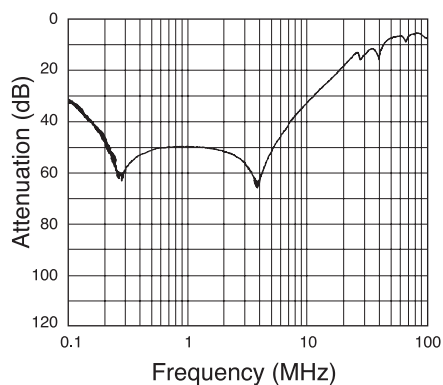


## CHARACTERISTICS

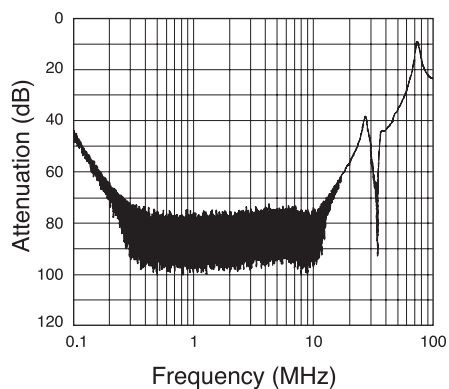
### ■ Attenuation Characteristic (typical)

**MC1306**

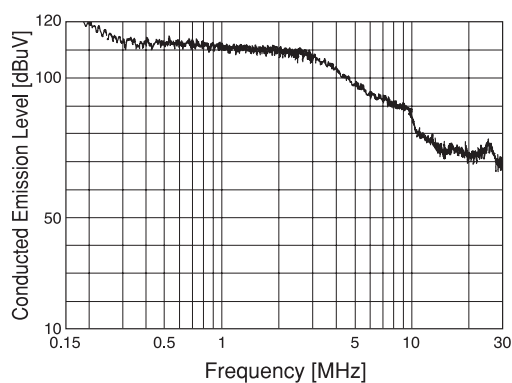
#### ● Asymmetrical



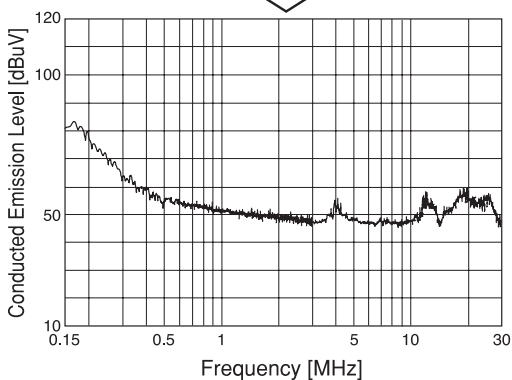
#### ● Symmetrical



#### ● Attenuation characteristics Reference Data (Inverter + Motor)

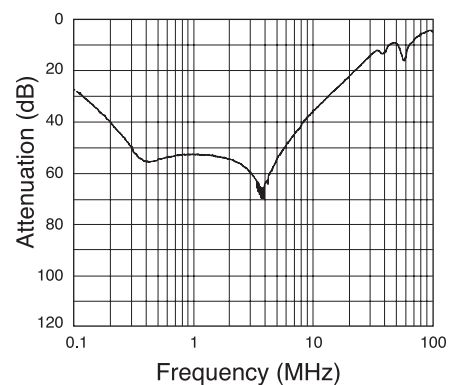


add MC1320

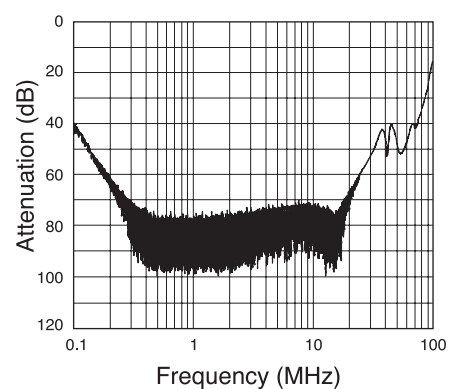


**MC1310**

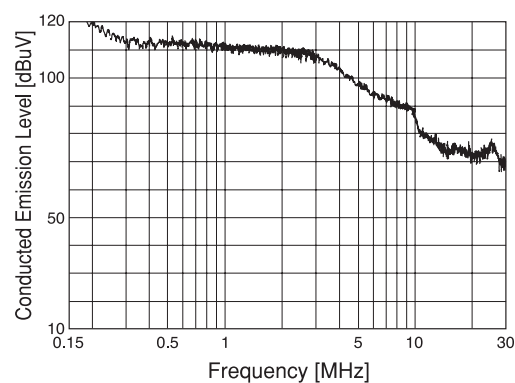
#### ● Asymmetrical



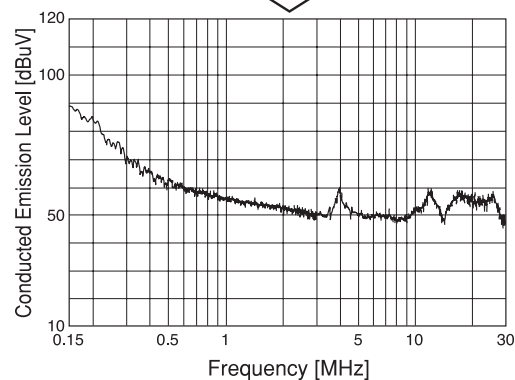
#### ● Symmetrical



#### ● Attenuation characteristics Reference Data (Inverter + Motor)



add MC1330

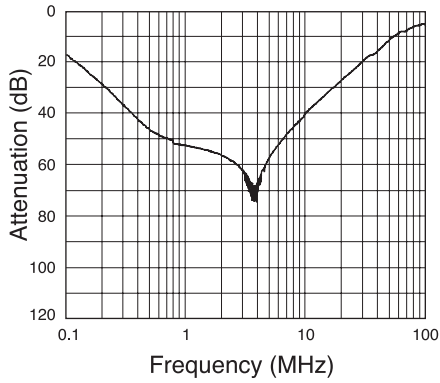


CHARACTERISTICS

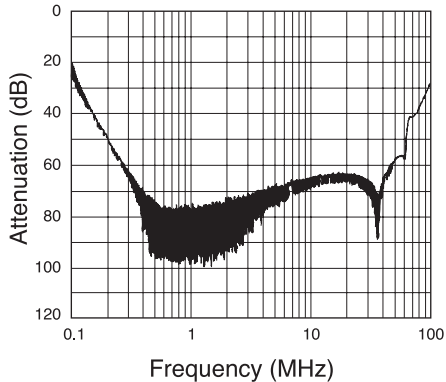
■ Attenuation Characteristic (typical)

MC1320

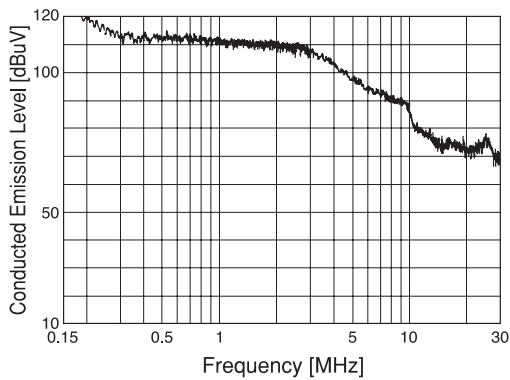
● Asymmetrical



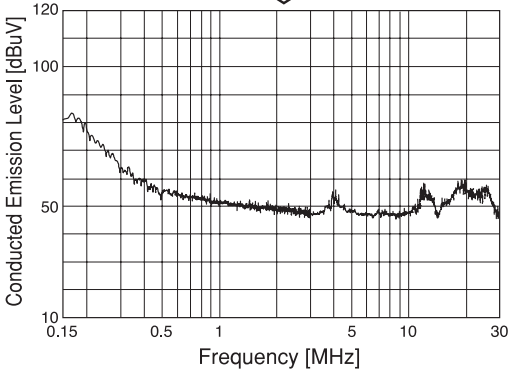
● Symmetrical



● Attenuation characteristics  
Reference Data (Inverter + Motor)

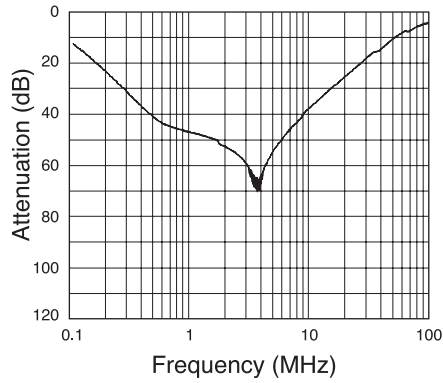


add MC1306

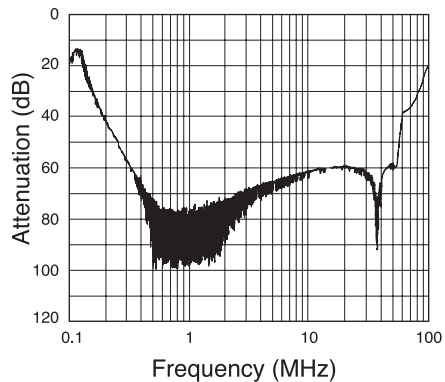


MC1330

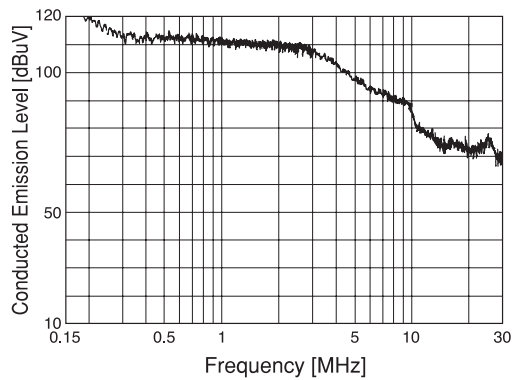
● Asymmetrical



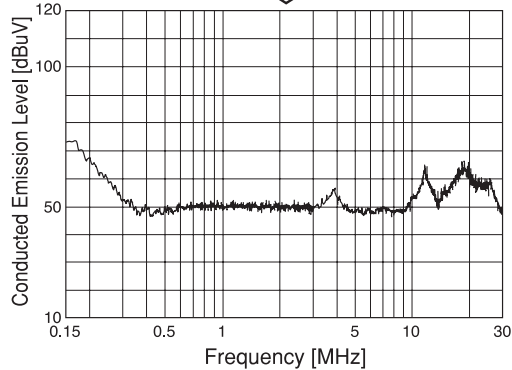
● Symmetrical



● Attenuation characteristics  
Reference Data (Inverter + Motor)



add MC1310



E M I  
Noise filter