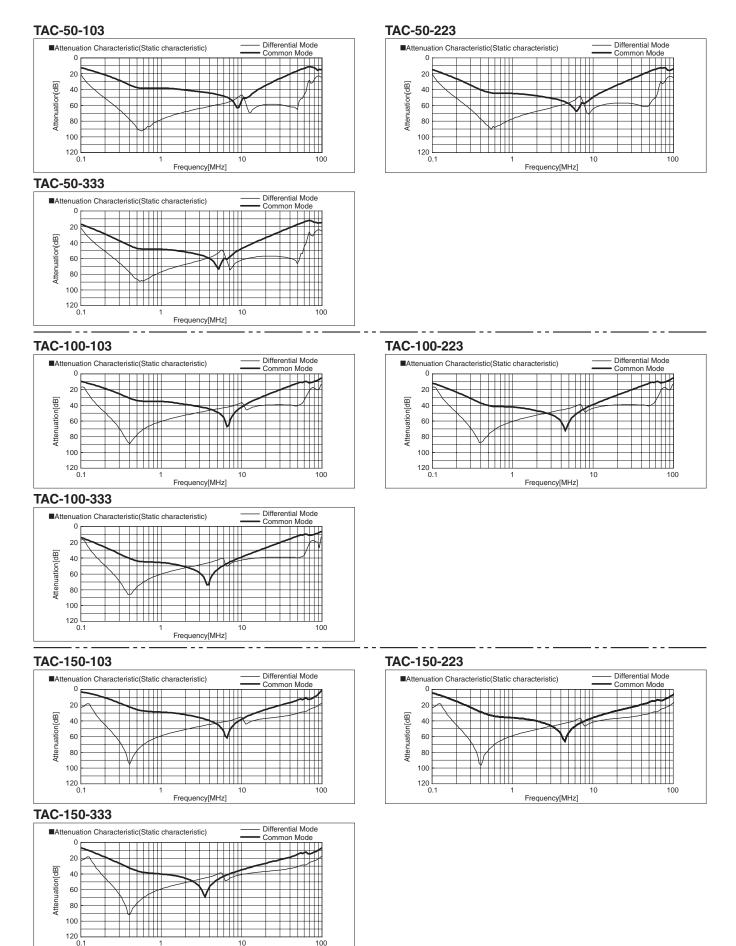


# Characteristic Data <Reference Data> TAC (50,100,150A) series



10

Frequency[MHz]

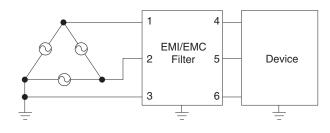
100



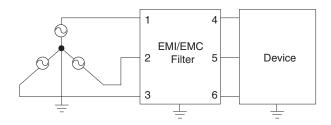
#### 1 Method of connecting EMI/EMC Filter

(1) Three phase (Delta-connection)

COSEL



(2) Three phase (Star-connection)





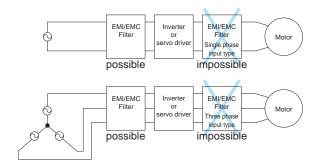
Input voltage 400 [V] Input capacity of the equipment 4000 [VA]

Input current =  $\frac{4000 \text{ [VA]}}{400 \text{ [V]} \times \sqrt{3}} = 5.8 \text{ [A]}$ 

### 2 Connection with a general-purpose inverter (servo driver)

The EMI/EMC Filter cannot be used between the inverter (servo driver) and the motor, because the EMI/EMC Filter might cause abnormal heat.

Please connect the EMI/EMC Filter to input side of inverter driver (servo driver).

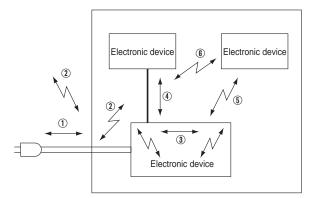


### 3 Safety Considerations

- To apply for safety standard approval using this EMI/EMC Filter, the following conditions must be met.
- The unit must be used as a component of an end-use equipment.
- Protection earth terminal (PE) must be connected to safety ground of end-use equipment.



#### 1 Noise Transmission



Noise transmission between electric power and electronic device

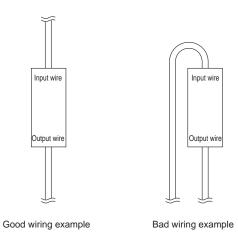
- ① Conducted noise from electric power lines.
- ② Radiated noise which is picked up and generated by the power line as antenna.
- ③ Conducted and radiated noise which is generated in the electronic device.
- ④ Conducted noise which is generated by the signal lines betweeen electronic devices.
- (5) Radiated noise emitted an electronic device that interferes with other device.
- (i) Radiated noise which is picked up and generated by the signal line as antenna.

### 2 Application Precautions

The following points should be kept in mind to use the EMI/EMC Filter more effectively.

Input wire and output wire of the EMI/EMC Filter should be separated.

When the input/output wire are bundled together or wired parallel with each other, high frequency noise is induced so, and the expected effect of noise attenuation cannot be achieved.



Ground lines should be as short as possible. If it is not, an equivalent inductance appears, and the high frequency attenuation characteristics degrade. When grounding the mounting plate of the EMI/EMC Filter, you should remove the paint to reduce the contact resistance from the equipment case, and then install the EMI/EMC Filter.

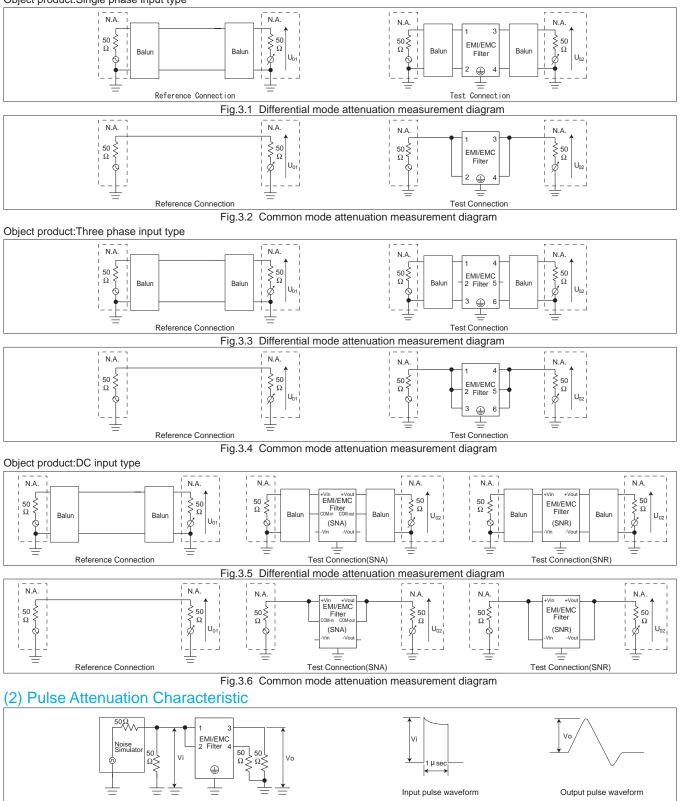


## 3 Method of measuring characteristic data

※Attenuation= 20log(U₀₁/U₀₂)[dB] Uo1 : Voltage in state without filters  $U_{\mbox{\tiny 02}}$  : Voltage in state which added filters %N.A. : Network analyzer

#### (1) Attenuation Characteristic(Static characteristic)

#### Object product:Single phase input type



Single phase input type