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## Operation on an IT or Corner Grounded System

### Definition

**IT system:** Isolated or impedance grounded neutral. Use a permanent insulation monitoring device compatible with nonlinear loads, such as an XM200 type or equivalent.

**Corner grounded system:** System with one phase grounded.

### Operation

<b><i>NOTICE</i></b>
<b>OVERVOLTAGE OR OVERHEATING</b> If the drive is operated via an IT or corner grounded system, the integrated EMC filter must be disconnected as described in the present manual. <b>Failure to follow these instructions can result in equipment damage.</b>

## Disconnecting The Built-in EMC Filter

### Filter Disconnection

**⚠ ⚠ DANGER**

**HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH**



Read and understand the instructions in **Safety Information** chapter before performing any procedure in this chapter.

**Failure to follow these instructions will result in death or serious injury.**

The drives have a built-in EMC filter. As a result they exhibit leakage current to ground. If the leakage current creates compatibility problems with your installation (residual current device or other), then you can reduce the leakage current by disconnecting the built-in filter as shown below. In this configuration the product does not meet the EMC requirements according to the standard IEC 61800-3.

### Setting

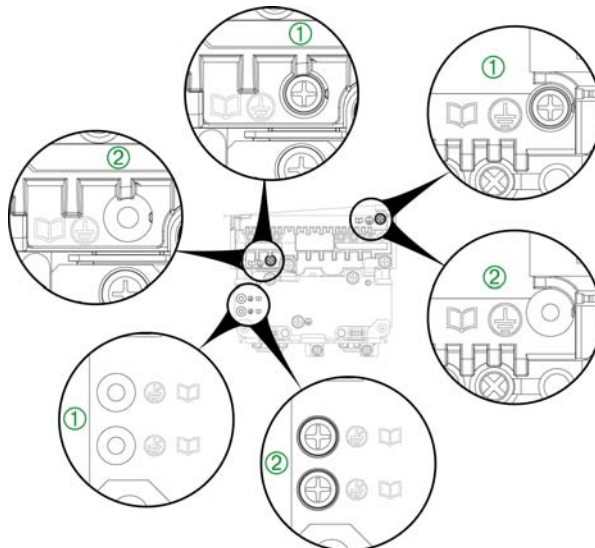
Apply the following instructions to disconnect the built-in EMC filter.

Step	Action
1	Remove the front cover(s) ( <i>see page 146</i> )
2	The screw(s) or switch is/are factory set to the  position, as shown on detail ①
3	For operation without the built-in EMC filter, remove the screw(s) from its/ their location or move the switch from its position and set it/them to the  position, as shown on detail ②
4	Refit the front cover(s)

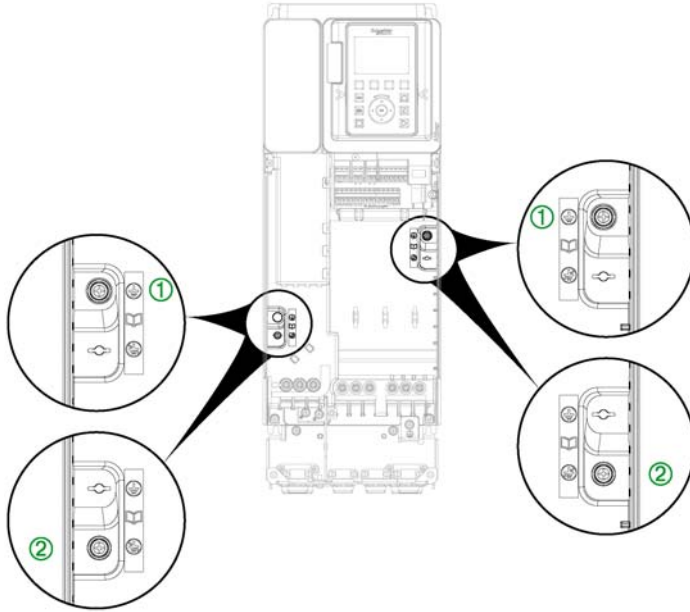
#### NOTE:

- Use only the screw(s) supplied.
- Do not operate the drive with setting screw(s) removed.

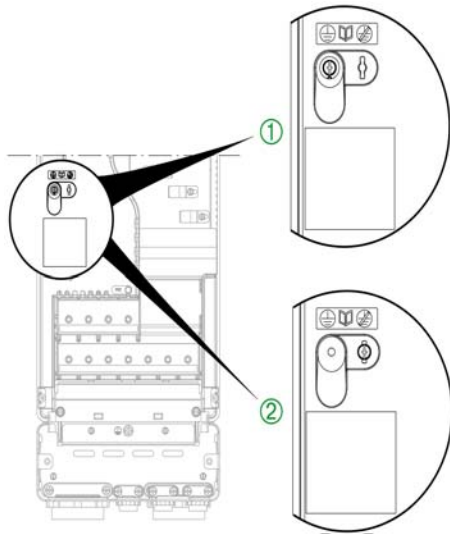
#### Setting For Frame Size 1 Products



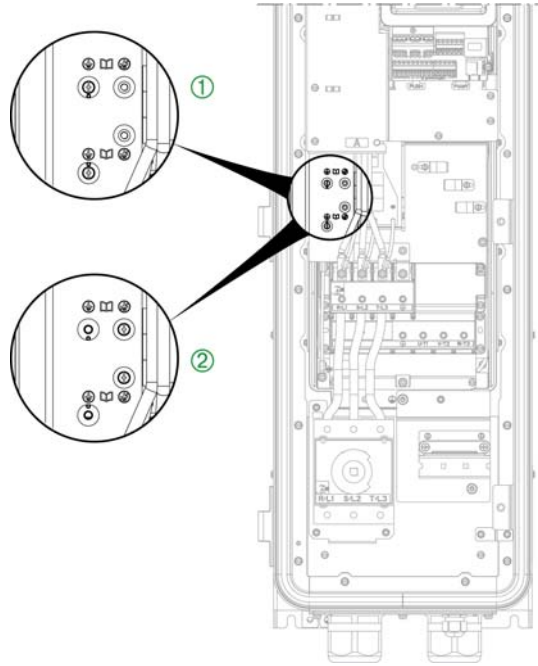
Setting For Frame Size 2, Frame Size 3 and IP55 Frame Size A Products



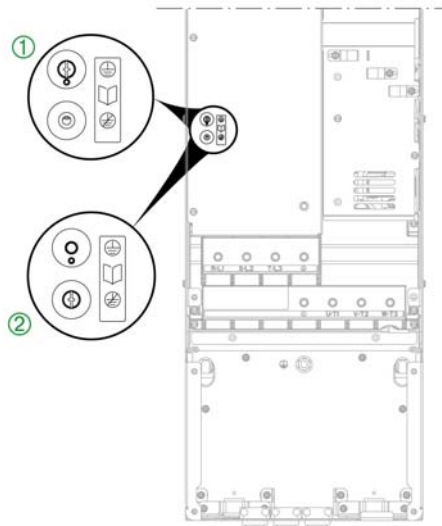
Setting For Frame Size 3S, Frame Size 3Y and Frame Size 4 Products, 200...240 V



Setting For IP55 Frame Size B Products and Frame Size 4 Products, 380...480 V

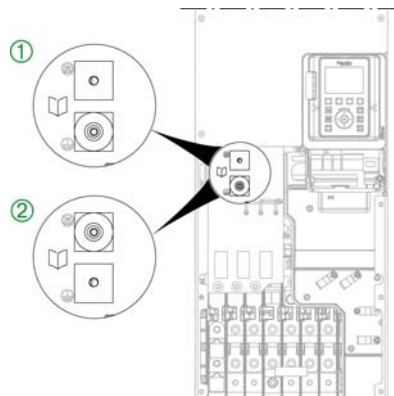


Setting For Frame Size 5 Products and IP55 Frame Size C Products

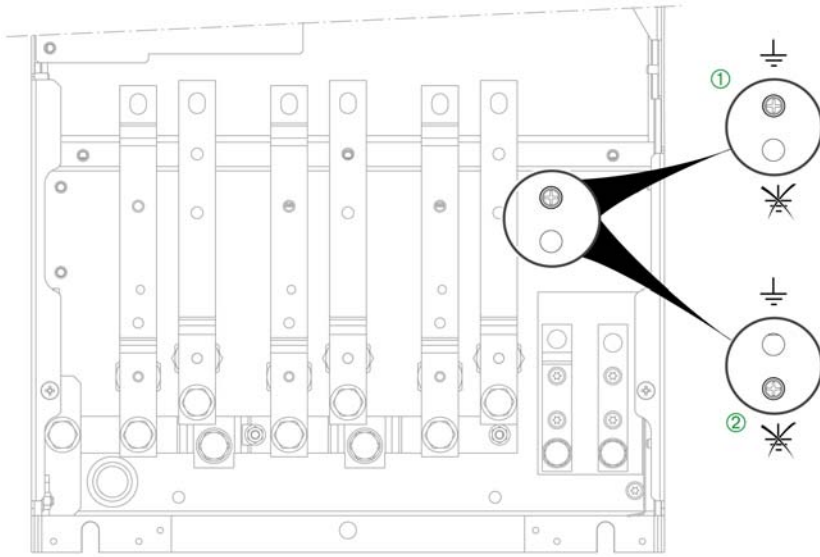


Setting For Frame Size 5S and Frame Size 5Y Products

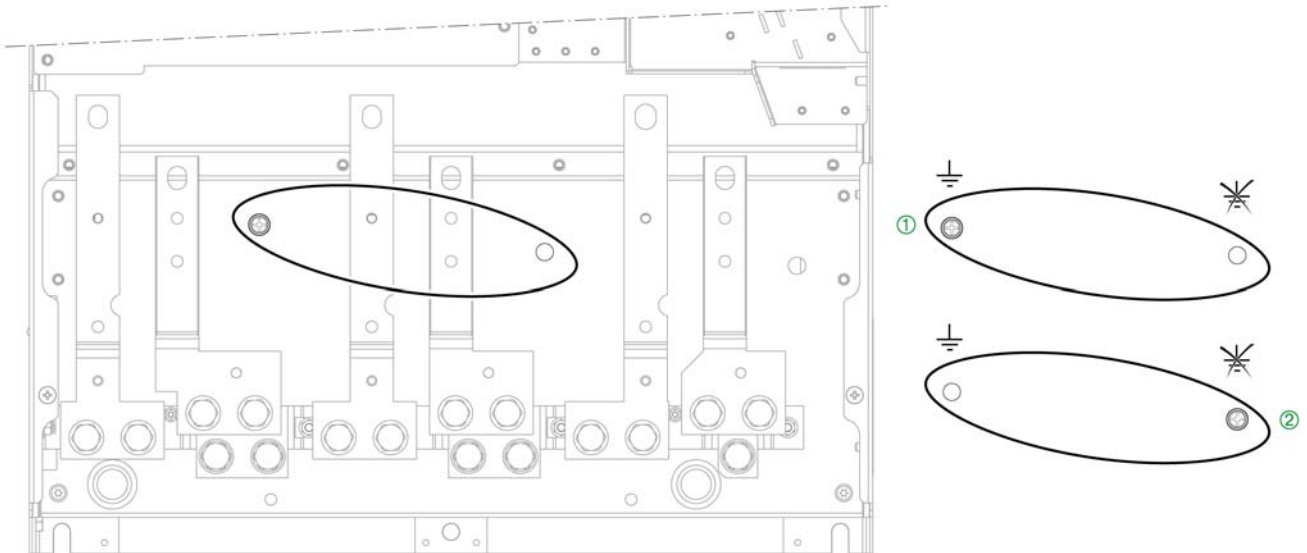
Setting For Frame Size 6 Products



### Setting For Frame Size 7A Products



### Setting For Frame Size 7B Products



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## Setting For Floor Standing Products

