
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

<i>NOTICE</i>
RISK OF DAMAGE TO THE DRIVE If the drive is used on an IT or corner grounded system, the built-in EMC filter must be disconnected as described in this manual. Failure to follow these instructions can result in equipment damage.

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

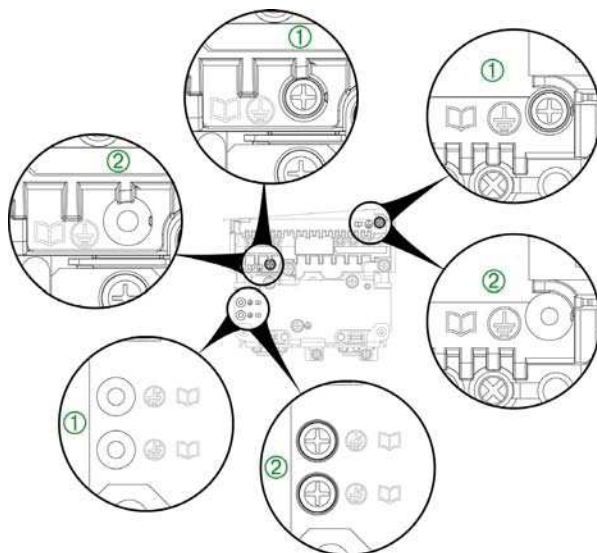
Apply the following instructions to disconnect the built-in EMC filter.

Step	Action
1	Remove the front cover (<i>see page 97</i>)
2	The screw(s) 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 and set it/them to the  position, as shown on detail ②
4	Refit the front cover

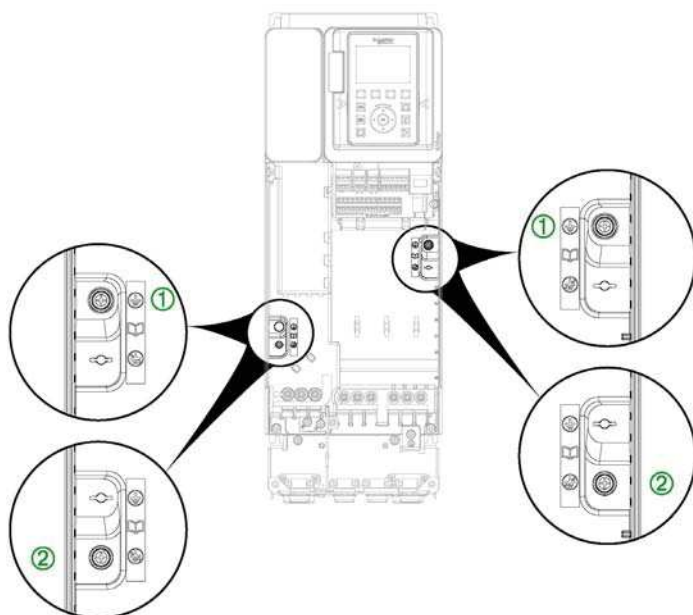
NOTE:

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

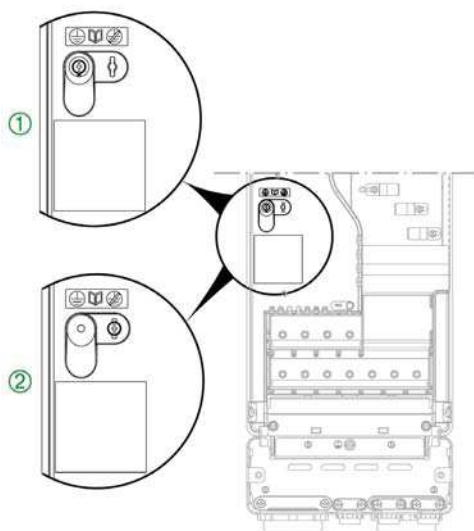
Setting For Frame Size 1 Products



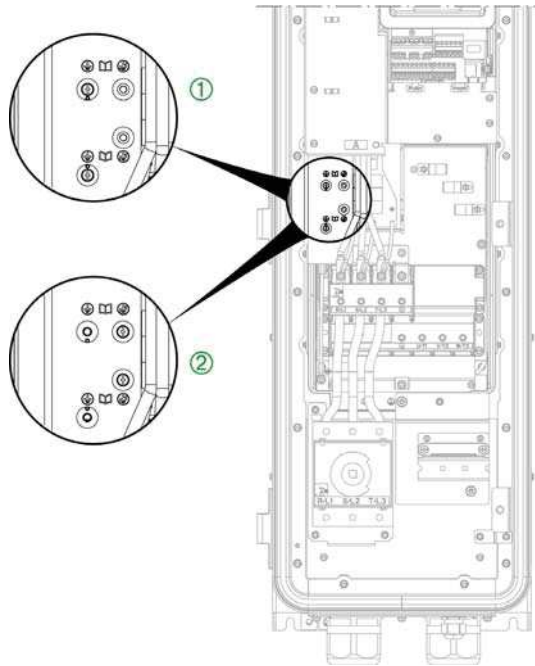
Setting For Frame Size 2, 3 and IP55 Frame Size A Products



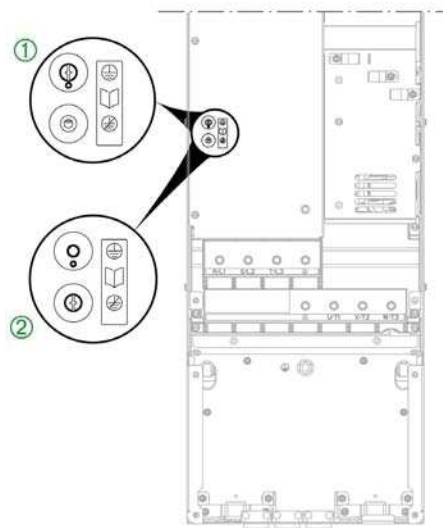
Setting For Frame Size 4 Products



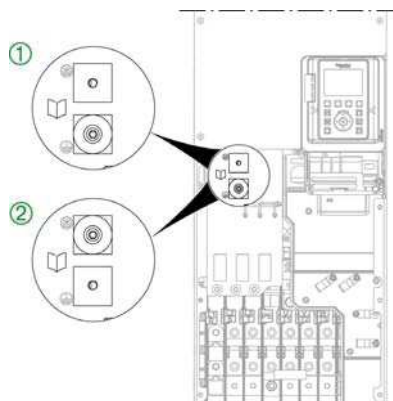
Setting For Frame IP55 Size B Products



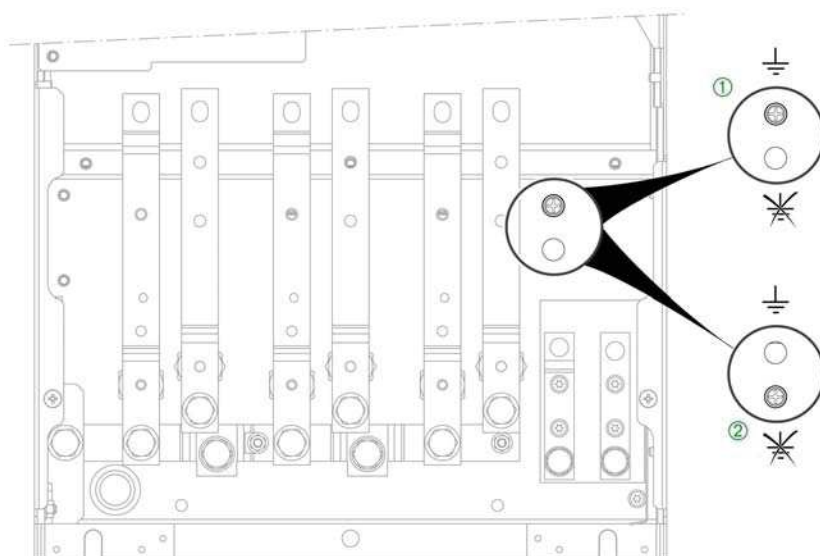
Setting For Frame Size 5 and IP55 Frame Size C Products



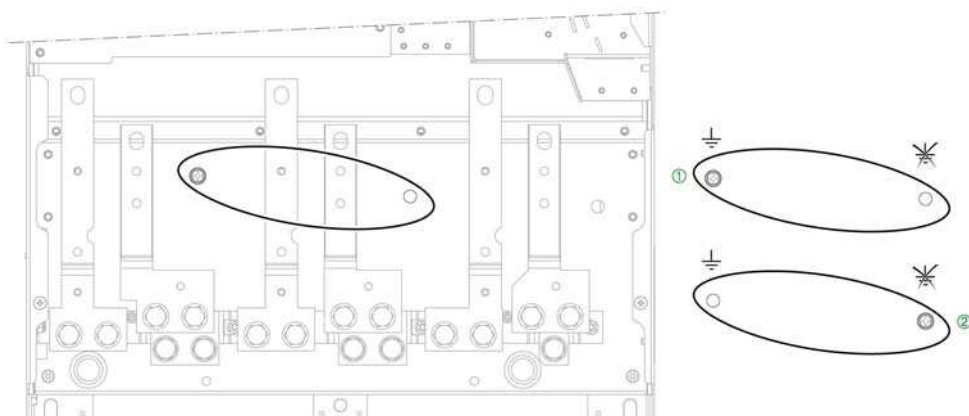
Setting For Frame Size 6 Products



Setting For Frame Size 7A Products



Setting For Frame Size 7B Products



Setting For Floor Standing Products

