

Wiring

EMC conditions for ATV12●●●●M2

C1 EMC category is reached if length of shielded cable is 5 m (16.4 ft) maximum and **Switching frequency $5 F r$** page 57 is 4, 8 or 12 kHz. C2 EMC category is reached if length of shielded cable is 10 m (32.8 ft) maximum and **Switching frequency $5 F r$** is 4, 8 or 12 kHz and if length of shielded cable is 5 m (16.4 ft) maximum for all other values of **Switching frequency $5 F r$** .

Internal EMC filter on ATV12●●●●M2

All ATV12●●●●M2 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 opening the IT jumper as shown below. In this configuration EMC compliance is not guaranteed.

CAUTION

DRIVE LIFETIME REDUCTION

On ATV12●●●●M2 ratings, if the filters are disconnected, the drive's switching frequency must not exceed 4 kHz. Refer to **Switching frequency $5 F r$** page 57 for adjustment,

Failure to follow these instructions can result in equipment damage.

