

Except as mentioned on this sheet, see <http://www.mtecorp.com/lineloadmanual.pdf>. Otherwise, be guided by the Good Practice Guidelines for installation of Dry Type Transformer equipment, followed by the Electrical Contractors under NECA. Power Dissipation of the Filter (Watts Loss) = 2.3 x Watts Loss of the Reactor alone.

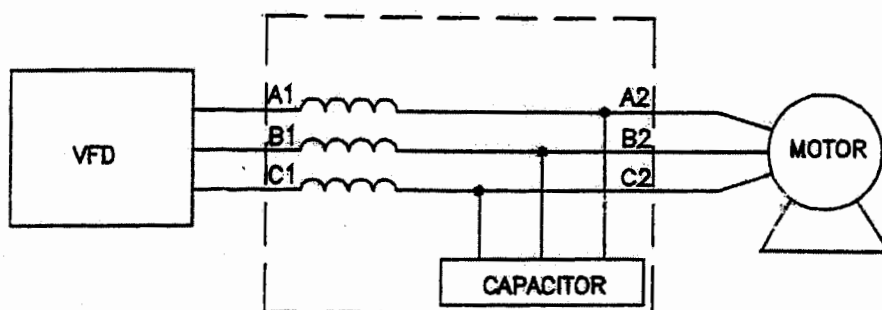
## CONNECTION OF THE MTE MOTOR PROTECTION FILTER

Sine Wave Type

For use with AC inverters with switching frequency set to 5 kHz or higher.

### LC FILTER

INSTALL IN, OR AS CLOSE AS POSSIBLE TO, THE VFD.



**CAUTION:** Improper connection may cause failure of filter or drive.

**CAUTION:** VFD switching (carrier) frequency must be set to no less than 5 kHz and no more than 20 kHz.  
MOTOR FREQUENCY MUST NOT EXCEED 60 Hz.

- 1) Disconnect drive power.
- 2) Connect the motor drive's output to the filter's input terminals A1, B1, C1.
- 3) Connect the motor's conductors to the filter's output terminals A2, B2, C2. (Do **NOT** energize filter unless there is a motor connected to its output)
- 4) Restore drive power.
- 5) Verify that motor drive's PWM switching (carrier) frequency is set to a value between 5 kHz and 20 kHz.