



Document Reference: AN060010VS1

Torque Control from the Keypad

Required Equipment:

VS1SP Inverter (Open Loop Mode)
VS1GV Vector
VS1SD Servo

Introduction:

This application note will describe how to use the Local Torque Mode feature and how it allows the operator to control the torque of a motor while in the Keypad operating mode.

Procedure:

1. The VS1 control must be in the Keypad operating mode (Local).
2. Press the MENU button on the keypad.
3. Using the down arrow key, scroll to PROGRAMMING and press the ENTER key.
4. Select LEVEL 1 BLOCKS and press the ENTER key.
5. Using the down arrow key, scroll to the KEYPAD SETUP BLOCK and press ENTER.
6. Using the down arrow key, scroll to the LOCAL TORQUE MODE parameter and press ENTER.
7. Using the down arrow key, select ON and press ENTER.
8. Using the down arrow key, scroll to the LOCAL TORQUE REF parameter and press ENTER.
9. The adjustable range for the LOCAL TORQUE REF parameter is –100.00 to 100.00%.

The LOCAL TORQUE MODE feature would be useful in applications that do not require external control wiring for start/stop functionality and torque reference signals.

Summary:

When the LOCAL TORQUE MODE parameter is programmed for ON and the LOCAL TOQUE REF parameter is programmed for a value other than zero, be aware the motor can ramp up to max speed if there is no load on the shaft of the motor.