



Document Reference: AN060009VS1

INIT LOCAL SPEED – Zero, Last Speed, or Set Speed on Power Up from Keypad

Required Equipment:

VS1SP Inverter
VS1GV Vector
VS1SD Servo

Introduction:

This application note will describe the three options for applying a speed demand, on power up, while in the local mode.

1. Zero
2. Last Speed
3. Set Speed

Zero 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 down to PROGRAMMING and press the ENTER key.
4. Select LEVEL 1 BLOCKS and press the ENTER key.
5. Using the down arrow key, scroll down to the KEYPAD SETUP block and press ENTER.
6. Using the down arrow key, scroll through the parameters until you find the INIT LOCAL SPEED parameter and press the ENTER button.
7. Three options are available for programming of the INIT LOCAL SPEED parameter: Zero, Last Speed, and Set Speed
8. When Zero is selected, the drive will maintain a “zero” speed when a FWD command is given on the keypad.

The Zero parameter is useful for applications where you don't want the motor to rotate when the FWD direction is commanded.

Last Speed 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 down to PROGRAMMING and press the ENTER key.
4. Press the ENTER key and select LEVEL 1 BLOCKS.
5. Using the down arrow key, scroll down to the KEYPAD SETUP block and press ENTER.
6. Using the down arrow key, scroll through the parameters until you find the INIT LOCAL SPEED parameter and press the ENTER button.
7. Three options are available for programming of the INIT LOCAL SPEED parameter: Zero, Last Speed, and Set Speed.
8. When Last Speed is selected, the drive will ramp the motor up to the last operating speed the motor was at prior to removing power from the control.

The Last Speed parameter selection is useful for applications where you need the motor to ramp up to the last speed commanded.

Set Speed 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 down to PROGRAMMING and press the ENTER key.
4. Press the ENTER key and select LEVEL 1 BLOCKS.
5. Using the down arrow key, scroll down to the KEYPAD SETUP block and press ENTER.
6. Using the down arrow key, scroll through the parameters until you find the INIT LOCAL SPEED parameter and press the ENTER button.
7. Three options are available for programming of the INIT LOCAL SPEED parameter: Zero, Last Speed, and Set Speed.

8. When Set Speed is selected, the drive will ramp the motor up to the programmed value of the SET SPEED parameter in the KEYPAD SETUP block.

The Set Speed parameter selection is useful for applications that require the motor to spin at a predetermined rate of speed when the FWD command is given.

Summary:

When programming the INIT LOCAL SPEED parameter to Last Speed, keep in mind the motor will spin, on power up and a FWD command, depending on what the last speed was prior to powering down the VS1 control. If the INIT LOCAL SPEED parameter is programmed for Set Speed, the motor will spin at the programmed value of the SET SPEED parameter when given a FWD command.