

CUSTOM SOFTWARE DESCRIPTION

EXTERNAL TERMINAL DC INJECTION

Software Numbers: VSP018180 / VSP018210		Base Versions: VSP010025 / VSP010104	
Product: V7 Low & High HP		Part Number: CIMR-V7AMXXXX-037	
Release Date:	Author: S.Sok	uza Beta Version	
Overview: DC Injection via a multi-function input added. This manual covers both the low HP			
version VSP018180 and the high HP version VSP01820.			
Revision History:			

Overview:

This software adds a DC Injection command as a multi-function input selection. The DC Injection command causes DC current to flow in the motor windings, which aligns the motor poles and provides holding torque.

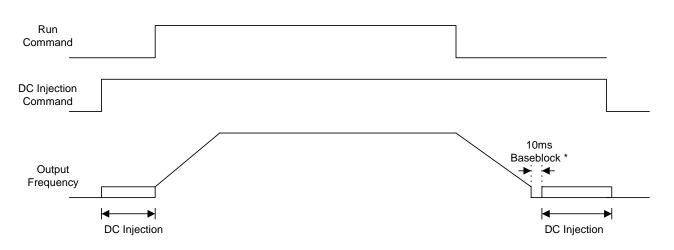
Additional Multi-function Input Setting:

Setting	Description
28	DC Injection Command

When $n050 \sim n056 = 28$, the corresponding input terminal (S1 ~ S7) is used for commanding DC Injection.

Description of Functionality:

- The DC Injection command will be active under the following conditions: the inverter is ready (i.e. not in program mode or in a fault state), no run command is present, and the output frequency is less than the Minimum Frequency (n016).
- The DC Injection Current Level is set by the standard parameter n089 (as a percentage of inverter rated current).
- The DC Injection at Start and DC Injection at Stop parameters n090 and n091 have priority over the external DC Injection command.
- The External Baseblock command has priority over the external DC Injection command.



Timing Chart:

* To prevent the 10ms Baseblock at the end of deceleration, set DC Injection Time at Stop n090 = 0.1 sec.