

<b>APPLICATION NOTE</b>	<b>FECA-AN-115</b>
<b>Pre-Set Speed Operation Wiring and Function Codes</b>	

<b>Inverter type</b>	FRENIC Mini series
<b>Software version</b>	All versions
<b>Required options</b>	None
<b>Related documentation</b>	-
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<b>Date</b>	12/21/2011
<b>Revision</b>	

### Introduction:

This application note will address the wiring and function code setup for operating the **FRENIC Mini** drive using multiple pre-set output frequencies. The inverter uses three terminals (X1 through X3) to achieve seven set speeds through a BINARY counting method. This counting procedure is displayed below, including the necessary function codes that must be set.

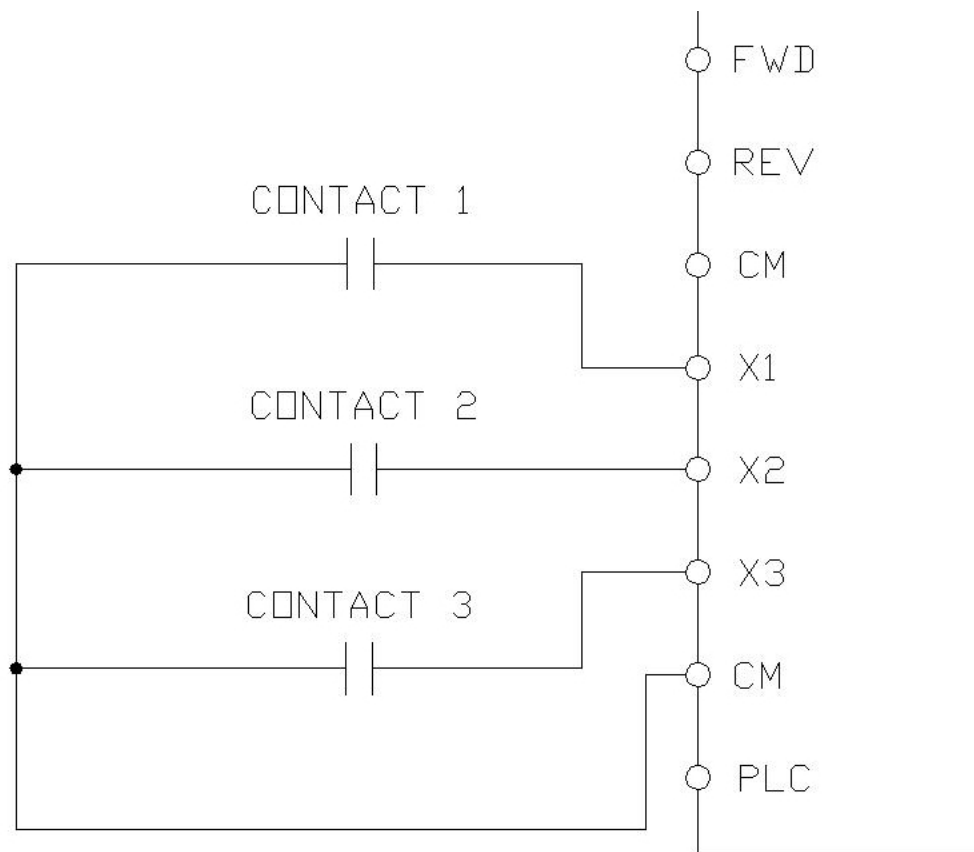
Note: Contacts 1 through 3 are customer-supplied, maintained dry contacts.

### INITIAL FUNCTION CODES TO BE SET

CODE	SETTING	NAME
E01	0 (SS1)	Terminal X1 Function
E02	1 (SS2)	Terminal X2 Function
E03	2 (SS4)	Terminal X3 Function

CONTACT 3	CONTACT 2	CONTACT 1	Corresponding Frequency (And C-Function Code)
0	0	0	Normal frequency reference (F01)
0	0	1	<b>C05</b> (multi-frequency 1: SS1)
0	1	0	<b>C06</b> (multi-frequency 2: SS2)
0	1	1	<b>C07</b> (multi-frequency 3: SS3)
1	0	0	<b>C08</b> (multi-frequency 4: SS4)
1	0	1	<b>C09</b> (multi-frequency 5: SS5)
1	1	0	<b>C10</b> (multi-frequency 6: SS6)
1	1	1	<b>C11</b> (multi-frequency 7: SS7)

\* Note: 1 corresponds to the contact being closed (HIGH), 0 corresponds to open contact (LOW)



Note: For more information concerning three-wire operation, refer to page 5-34 of **FRENIC Mini Instruction Manual**.