Fuji Electric
e-Front runners

APPLICATION NOTE	FECA-AN-166
Pre-Set Speed Operation **Wiring and Function Codes**	

Inverter type	FRENIC Mini series
Software version	All versions
Required options	None
Related documentation	INR-SI47-1729a-E
Author	M. Royal
Date	6/29/2015
Revision	

Introduction:

This application note will address the wiring and function code setup for operating the **FRENIC Mini (C2)** 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.

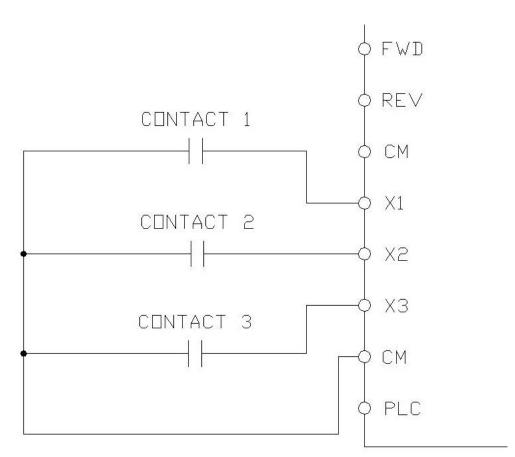Note: Contacts 1 through 3 are customer-supplied, maintained dry contacts.

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**	**C05** (multi-frequency 1: SS1)
0	**1**	0	**C06** (multi-frequency 2: SS2)
0	**1**	**1**	**C07** (multi-frequency 3: SS3)
1	0	0	**C08** (multi-frequency 4: SS4)
1	0	**1**	**C09** (multi-frequency 5: SS5)
1	**1**	0	**C10** (multi-frequency 6: SS6)
1	**1**	**1**	**C11** (multi-frequency 7: SS7)

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

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WIRING DIAGRAM

Note: For more information concerning three-wire operation, refer to page 5-34 of
FRENIC Mini (C2) Instruction Manual.

Data subject to change without notice. 06/2015