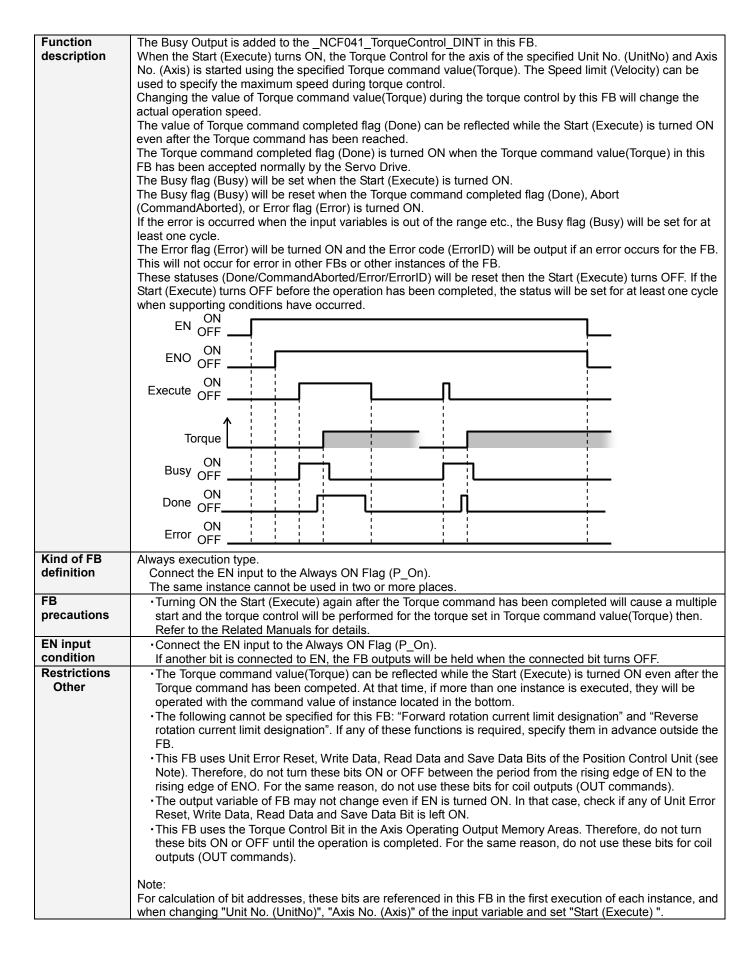
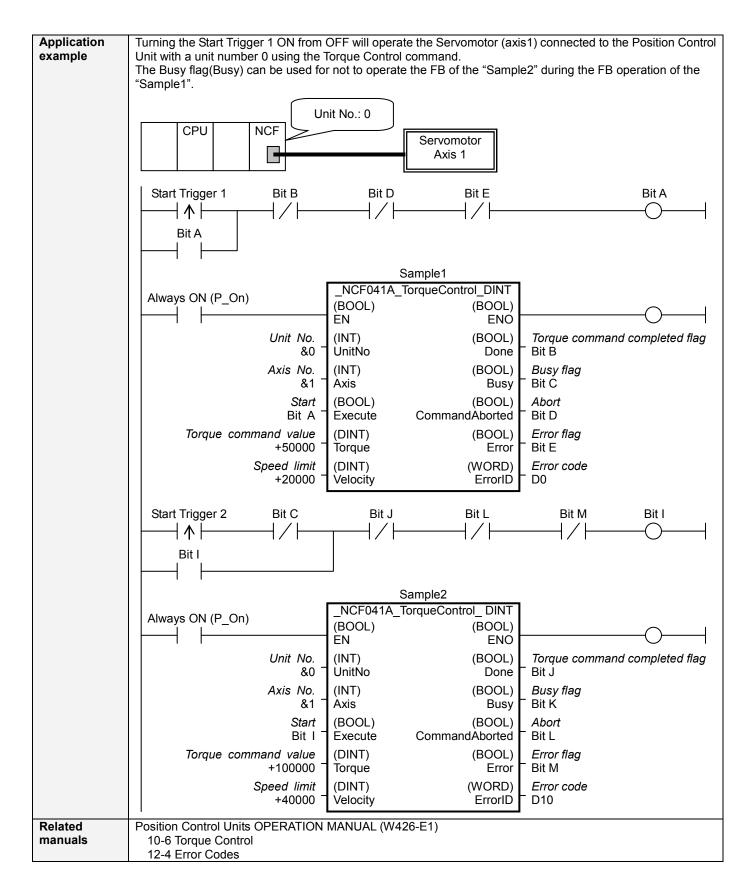
NCF Torque Control (DINT) _NCF041A_TorqueControl_DINT

Basic function	Controls the torque. (Busy attachmo	ent)				
Symbol						
	Always ON (P_On)	_NCF041A_TorqueControl_DINT (BOOL) (BOOL)				
		EN EN	O			
			. .			
	Unit No	(INT) (BOOL) UnitNo Done	Torque command completed flag			
	Axis No.	(INT) (BOOL) Axis Busy	Busy flag			
	Start -	Execute CommandAborted	Abort			
	Torque command value		Error flag			
	Speed limit	(DINT) (WORD) Velocity ErrorID	Error code			
File name	Lib\FBL\omronlib\PositionController	NCF_NCF041A_TorqueControl_DINT	11.cxf			
Applicable		71, CS1W-NCF71				
models		**H Unit Version 3.0 or later				
	CJ1*-CPU**H Unit Version 3.0 or later					
	CJ1M-CPU** Unit Version 3.0 or later					
	CP1H CX-Programmer Version 5.0 or later					
Languages in	Ladder programming					
function block definitions						
Conditions for		should be the Position Control Unit vers	sion 1.2 or earlier.			
usage	(It will not be required in the Positio	n Control Unit version 1.3 or later)				
	CX-Programmer Setting The function blocks related to the	Position Control Units will not operate	if the area H512 or higher (default			
		etain Area through the Function block m				
	change the memory area to unus	ed area (DM or EM, for example) from t	he CX-Programmer. To change this			
	value, click PLC/Function Block	Memory/Function Block Memory All	ocation from the Menu Bar.			
	Function Block Memory Allocation [NewPLC1]	X				
		Address Size OK				
	No RetainH512H140RetainH1408H150	· · · · · · · · · · · · · · · · · · ·				
	Timers T3072 T409	5 1024 Edit				
	Counters C3072 C409	1024 Default				
		Specify unused area.				
		The required size varies depending on the use				
		If an area being used in the ladder program				
	Function Bloc Memory Allocation [NewPLC++, space cannot be found, the CX-Programmer will display a compile error.					
		Address S. OK				
	No Retain D32020 D32 Retain H1408 H153					
	Timers T3072 T409 Counters C3072 C409	5 1024 Edit				
		Default	For example, to use the memory			
			area from D32020 to D32767 748 words), specify the			
			addresses as shown in the left.			





■Variable Tables Input Variables

Nome	Variable name	Data turna	Default	Danga	Description
Name	Variable name	Data type	Default	Range	Description
EN	EN	BOOL			1 (ON): FB started
					0 (OFF): FB not started.
Unit No.	UnitNo	INT	&0	&0 to &15	Specify the unit number.
Axis No.	Axis	INT	&1	&1 to &16	Specify the axis number.
Start	Execute	BOOL	0(OFF)		Starts the speed control.
Torque command	Torque	DINT	+0	-199,999 to	Specify the target torque.
value				+199,999	The unit is 0.001% of the momentary max torque
					of the motor being used.
					Changing the value while this FB is in operation
					will change the actual torque command value.
Speed limit	Velocity	DINT	+0	+0 to	Specify the speed limit.
	-			+100,000	The unit is % of the maximum speed of the motor
					being used.
					This value can be used as Speed limit value during
					torque control with the setting of Servo Parameter.
					W-Series: Pn002.1 Speed Command Input
					Change in Parameter Function
					Selection Application Switch 2
					G-Series: Pn05B Speed limit selection
					Refer to the manual written on the Related
					Manuals for the details.

Output Variable	Output Variables					
Name	Variable name	Data type	Range	Description		
ENO	ENO	BOOL		 1 (ON): FB operating normally 0 (OFF): FB not operating normally FB not started Input variable out of the range FB ended with error Common Parameters could not be read 		
Torque command completed flag	Done	BOOL		Turns ON when the torque command has been accepted.		
Busy flag	Busy	BOOL		1 (ON) indicates that the FB is in progress.		
Abort	CommandAborted	BOOL		 (ON): Aborted It will be aborted when any of the following conditions is met during operation Turns ON when the other Move command done (Duplicate Move). Stopped with Decleration Stop or Emergency Stop. Executed Servo Unlock, Deviation Counter Reset on an operating axis. Attempted to execute FB while Servo Unlock, Deceleration Stop, Emergency Stop or Deviation Counter Reset Bit is ON. Detected the Stop Execution Flag is ON. The Torque Control Bit is changed by the other FB during Torque Control in operation. 		
Error flag	Error	BOOL		Turns ON when an error has occurred in the FB.		
Error code	ErrorID	WORD		 Returns the error code when an error has occurred in the FB. Refer to the <i>Related Manuals</i> for details on errors. A code of #0000 will be returned if any of the following conditions is satisfied. Input variable is out of range. The common parameters of the Position Control Units are out of range. Not established communications with a specified axis. 		

Version History

Version	Date	Contents
1.13	2006.01.	Original production
1.10	2000.01.	- Criginal production

∎Note

This document explains the function of the function block.

It does not provide information of restrictions on the use of Units and Components or combination of them. For actual applications, make sure to read the operation manuals of the applicable products.