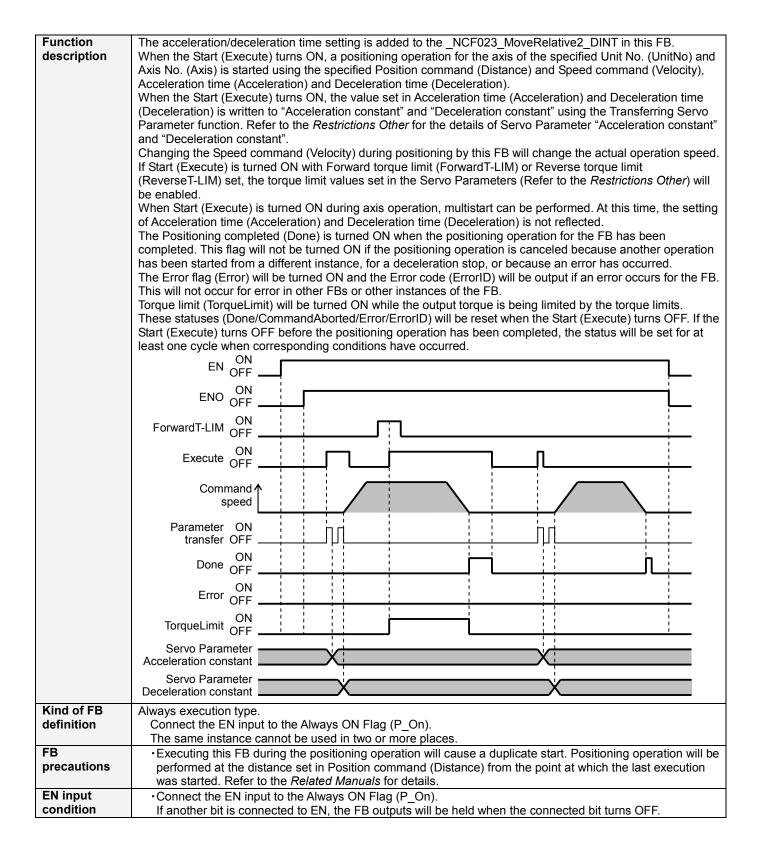
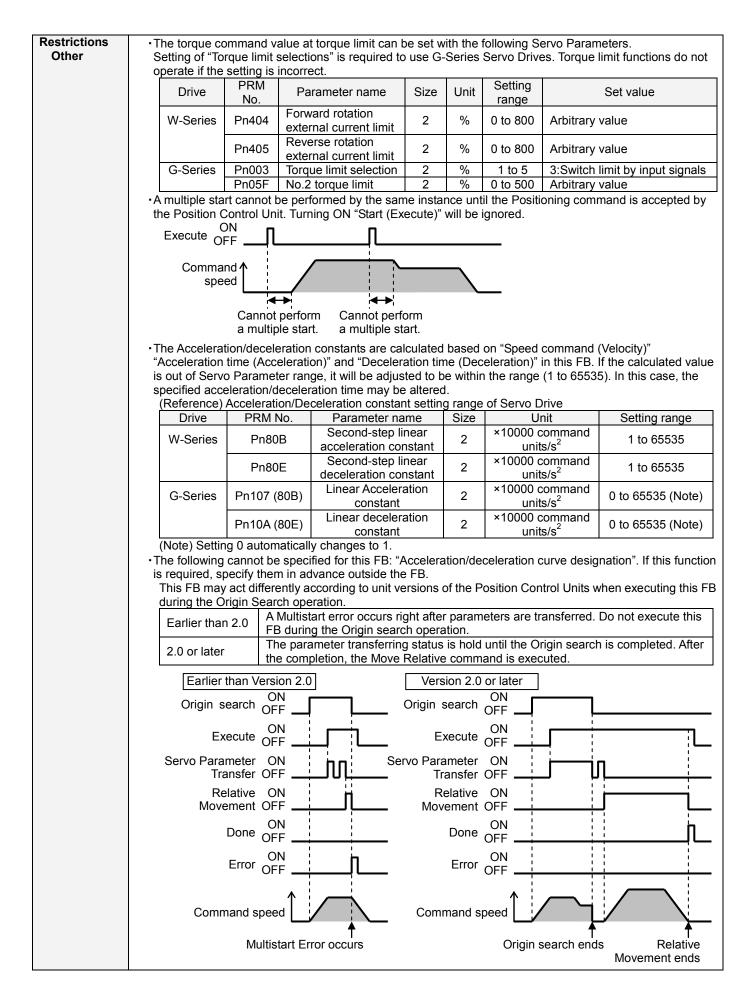
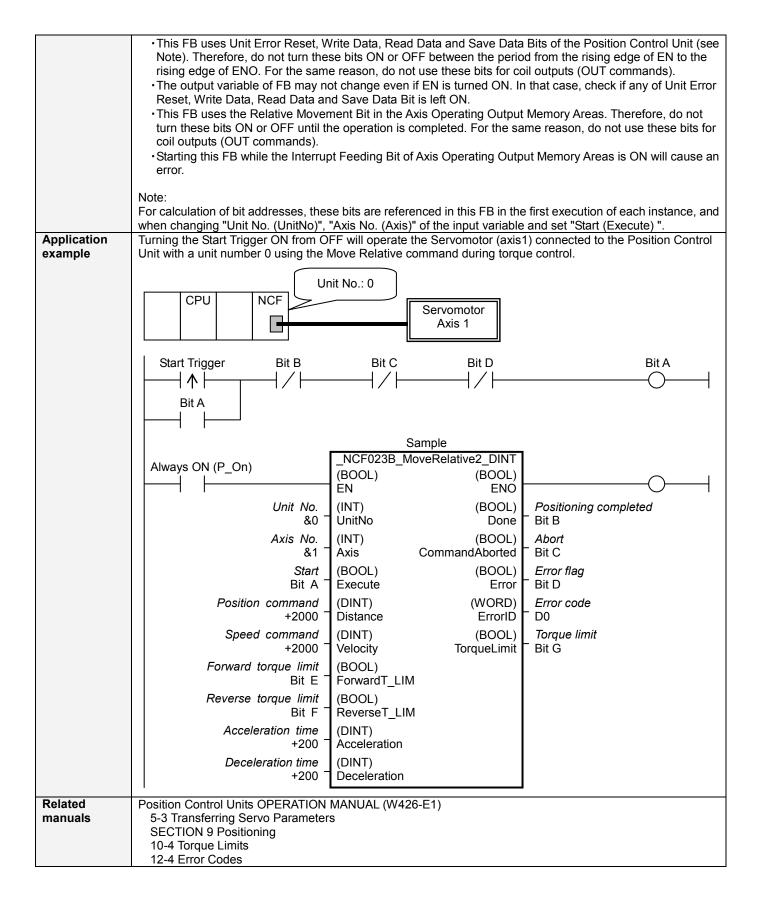
NCF 023B

Move Relative with Torque-limit (DINT) _NCF023B_MoveRelative2_DINT

Basic function	Executes positioning with the relative movement during torque control. (Acceleration/Deceleration time setting attachment)					
Symbol						
-	Always ON (P_On)		(BOOL)	—		
			EN	(BOOL) ENO	——————————————————————————————————————	
		Unit No. –		(BOOL)	- Positioning completed	
		Axis No	UnitNo (INT)	Done (BOOL)	- Abort	
		Start -	Axis (BOOL)	CommandAborted (BOOL)	- Error flag	
	Position c		Execute (DINT) Distance	Error (WORD) ErrorID	- Error code	
	Speed c	ommand -	(DINT) Velocity	(BOOL) TorqueLimit	– Torque limit	
	Forward tor	que limit –	(BOOL) ForwardT_LIM			
	Reverse tor	que limit –	(BOOL) ReverseT LIM			
	Accelera	tion time –	(DINT) Acceleration			
	Decelera	ation time –	(DINT) Deceleration			
File name	I	- Controllor		Maya Dalatiya 2, DI		
Applicable	Lib\FBL\omronlib\Position		71, CS1W-NCF		NTTU.cxi	
models			"H Unit Version			
			*H Unit Version			
		CJ1M-CPU [:] CP1H	** Unit Version 3	3.0 or later		
		Version 5.0	or later			
Languages in	Ladder programming					
function block definitions						
Conditions for	The following conditions				ersion 1.2 or earlier.	
usage	(It will not be required in ■CX-Programmer Setting		Control Unit ve	rsion 1.3 or later)		
			Position Control	l Units will not operat	e if the area H512 or higher (default	
	setting) is specified as	the Non Re	etain Area throug	gh the Function block	memory allocation. Make sure to	
					n the CX-Programmer. To change this	
	value, click <i>PLC/Function Block Memory/Function Block Memory Allocation</i> from the Menu Bar.					
			Address Size	X		
	No Retain H512	H140	7 896	ОК		
	Retain H1408 Timers T3072	H153		Cancel		
	Counters C3072	C409		Edit Default		
			Specify unused are			
		— т	The required size va	aries depending on the	used FB and the number of FBs.	
		s			am is specified or sufficient free er will display a compile error.	
	Function Bloc Memory Allocat	tion [NewPLC1]				
	FB Instanc Tea Start Ad No Retain D32020		Address St. 67 748	ОК		
	Retain H1408 Timers T3072	H153	5 128	Cancel		
	Counters C3072	C409		Edit	For example, to use the memory	
				Default	area from D32020 to D32767	
				Advanced	(748 words), specify the addresses as shown in the left.	







■Variable Tables Input Variables

Nome		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)		f: Starts the relative move.
Position	Distance	DINT	+0	-2,147,483,648 to	Specify the deistance for relative movement.
command				+2,147,483,647	Unit: Command units/s
Speed	Velocity	DINT	+0	+0 to	Specify the target speed.
command	-			+2,147,483,647	Unit: Command units/s
					Changing the value while this FB is in operation
					will change the actual operating speed.
Forward torque limit	ForwardT_LIM	BOOL	0(OFF)		Specify the torque limit in forward direction.
Reverse	ReverseT LIM	BOOL	0(OFF)		Specify the torque limit in reverse direction.
torque limit			-()		
Acceleration	Acceleration	DINT	+0	+0 to +65,535	Specify the acceleration time for the speed
time					specified in "Speed command (Velocity)".
					Unit: ms
Deceleration	Deceleration	DINT	+0	+0 to +65,535	Specify the deceleration time for the speed
time					specified in "Speed command (Velocity)".
					Unit: ms

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
Positioning completed	Done	BOOL		Turns ON when the positioning operation has been completed.
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 Relative Movement Bit is changed by the other FB during Relative Movement 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. The Interrupt Feeding Bit of Axis Operating Output Memory Areas is ON before Relative Movement is executed by this FB. The Write Servo Parameter Bit is changed by the other FB during writing Servo parameters.
Torque limit	TorqueLimit	BOOL		1(ON) indicates that output torque is being limited.

■Version History

Version	Date	Contents
1.01	2007.11.	Original 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.