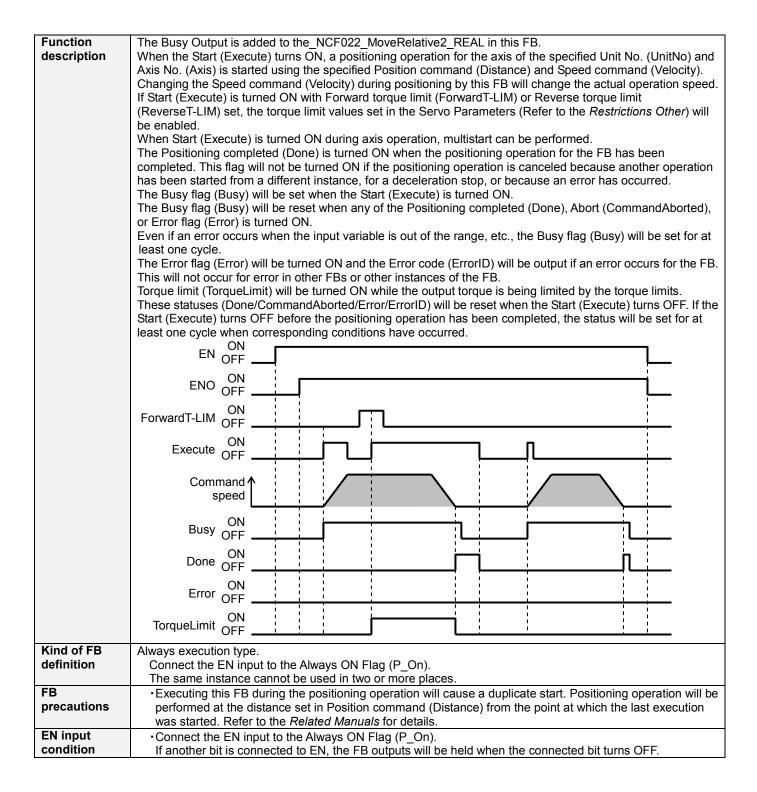
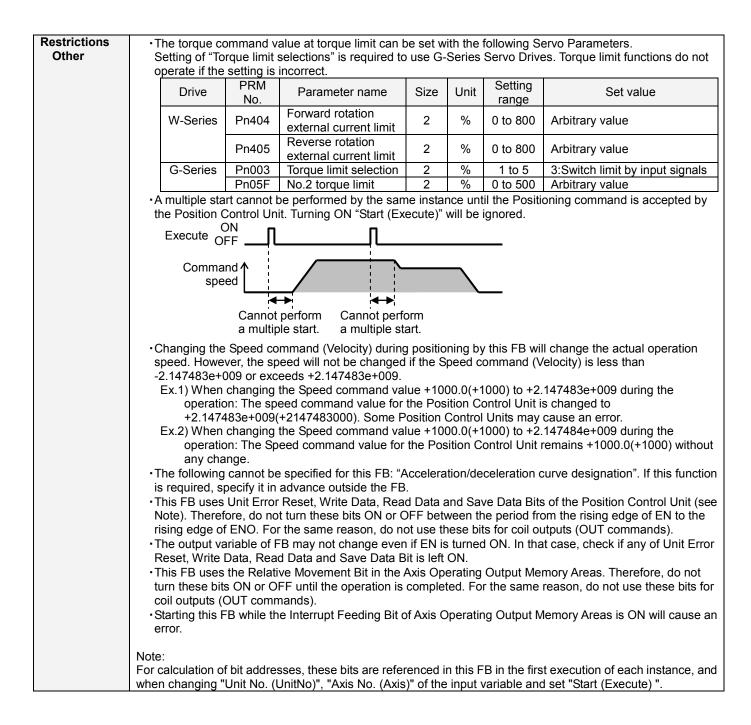
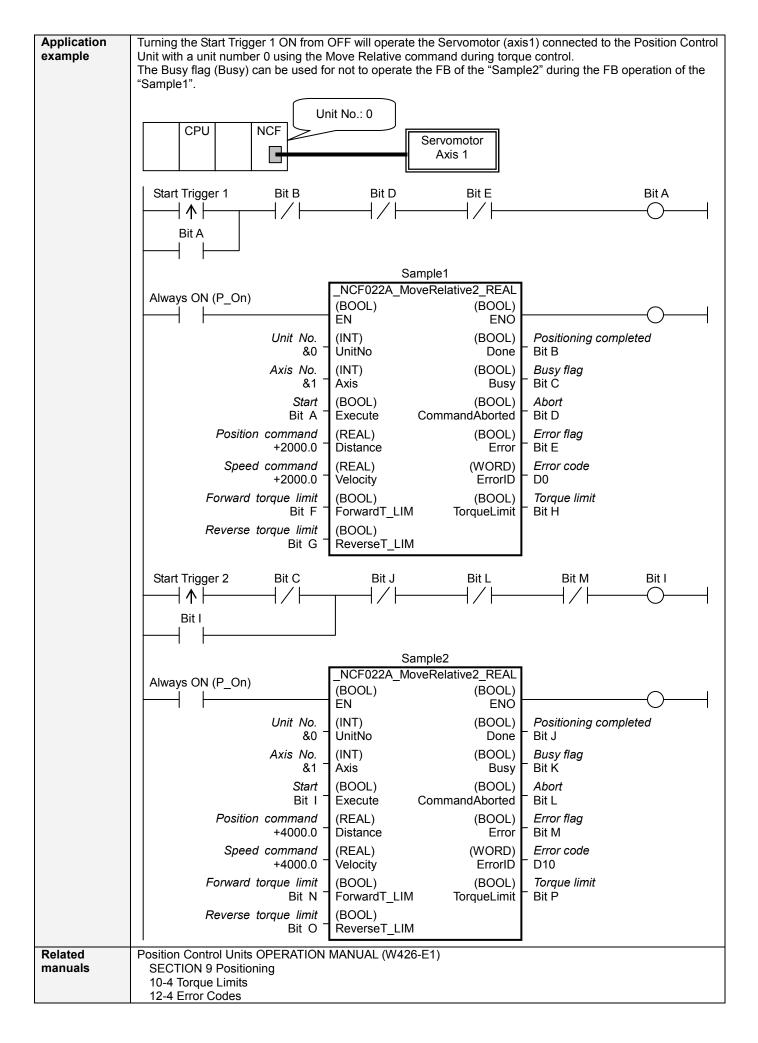
NCF
022A

Move Relative with Torque-limit (REAL) _NCF022A_MoveRelative2_REAL

Basic function	Executes positioning with the relative movement during torque control. (Busy attachment)						
Symbol							
-,	Always ON (P_On)			oveRelative2_REAL			
			(BOOL)	(BOOL)	\bigcirc \square		
			EN	ENO			
		Unit No. –	(INT) UnitNo	(BOOL) Done	 Positioning completed 		
		Axis No. –	(INT) Axis	(BOOL) Busy	– Busy flag		
		Start -	(BOOL) Execute	(BOOL) CommandAborted	– Abort		
	Position	o command -	(REAL) Distance	(BOOL) Error	- Error flag		
	Speed	l command -	(REAL) Velocity	(WORD) ErrorID	 Error code 		
	Forward t	torque limit –	(BOOL) ForwardT_LIN	(BOOL) TorqueLimit	– Torque limit		
	Reverse t	torque limit –	(BOOL) ReverseT_LIM	1			
File name	Lib\FBL\omronlib\Posit	tionController\	NCE NCE022	A MoveRelative2 R	FAI 11 cxf		
Applicable	Position Control Unit		71, CS1W-NCF				
models	CPU Unit		*H Unit Version				
			H Unit Version				
	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	The following condition				ersion 1.2 or earlier.		
usage	(It will not be required i		Control Unit ve	ersion 1.3 or later)			
	CX-Programmer Setti						
					te if the area H512 or higher (default		
					memory allocation. Make sure to		
	change the memory area to unused area (DM or EM, for example) from the CX-Programmer. To change this value, click <i>PLC/Function Block Memory/Function Block Memory Allocation</i> from the Menu Bar.						
	value, click PLC/Fun	nction Block	wemory/Funct	ion Block Memory	Allocation from the Menu Bar.		
	Function Block Memory Allocation [NewPLC1]						
	FB Instance Area Start	Address End A	ddress Size				
	No Retain H512			ОК			
	Retain H140 Timers T307			Cancel			
	Counters C307			Edit			
				Default			
			pecify unused are				
					used FB and the number of FBs.		
	If an area being used in the ladder program is specified or sufficient free space cannot be found, the CX-Programmer will display a compile error.						
	Function Bloc Memory Allocation [NewPLC]						
			ddress S	ОК			
	No Retain D320						
	Retain H140 Timers T307			Cancel	1		
	Counters C307			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

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 command	Distance	REAL	+0.0	-2.147483e+009 to	Specify the deistance for relative
				+2.147483e+009	movement.
					Unit: Command units/s
Speed command	Velocity	REAL	+0.0	+0.0 to	Specify the target speed.
				+2.147483e+009	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 torque limit	ReverseT_LIM	BOOL	0(OFF)		Specify the torque limit in reverse
					direction.

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.
Busy flag	Busy	BOOL		1 (ON) indicates that the FB is in progress.
Abort	CommandAborted	BOOL		1 (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 Related Manuals 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.
Torque limit	TorqueLimit	BOOL		1(ON) indicates that output torque is being limited.

■Version History

Version	Date	Contents				
1.03	2006.01.	Original production				
1.10	2007.11.	The restrictions on the Interrupt Feeding Designation of the Axis Operating Output Memory Areas have been removed.				

■Upgrade Details

Version	Contents
1.10	In the version 1.03, the Interrupt Feeding Designation of the Axis Operating Output Memory Areas was always monitored. Therefore, an error was output by the FB regardless of an axis status when turning ON the Interrupt Feeding Designation after completing to accept the command to operate an axis. In the version 1.10, it is monitored only when starting an axis operation and not monitored after a positioning operation has started.

■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.