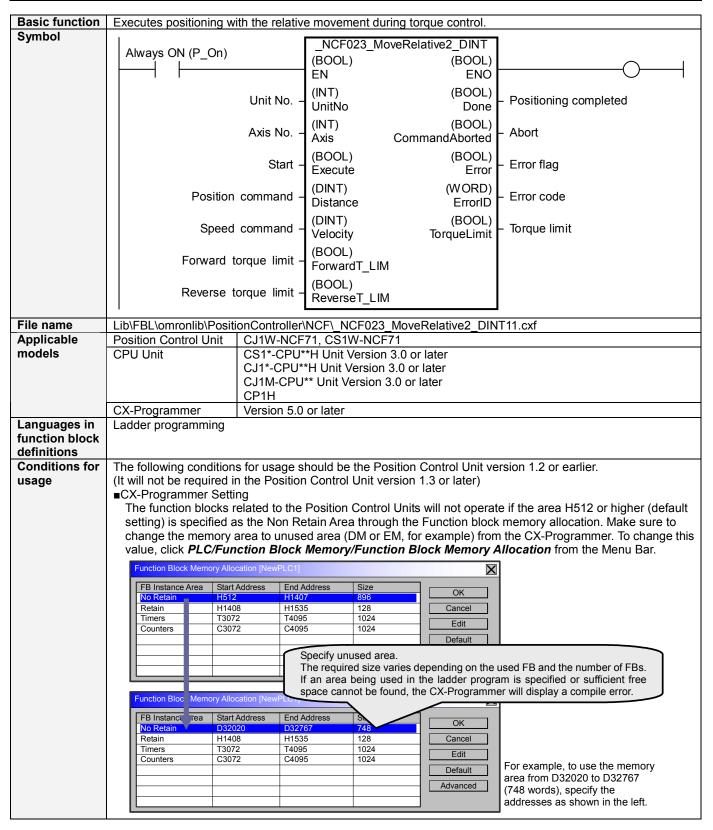
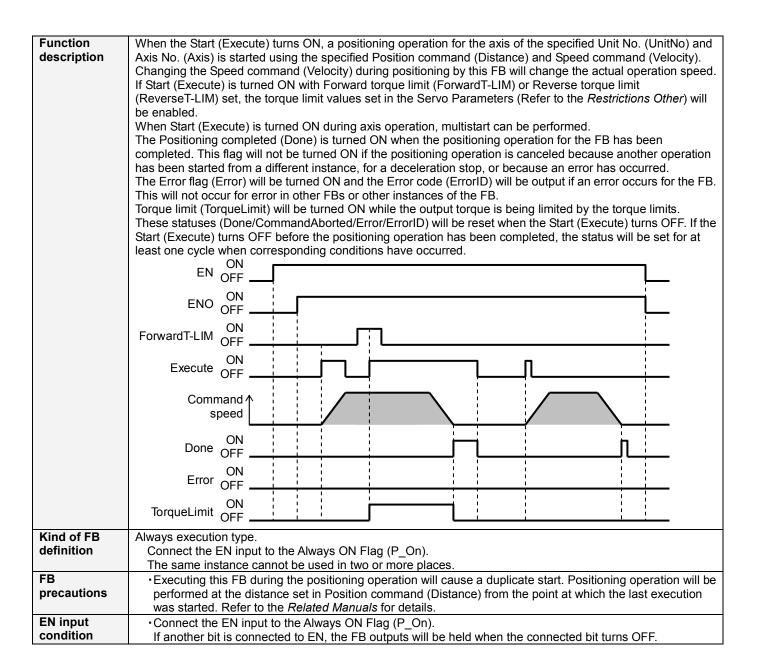
Move Relative with Torque-limit (DINT)

_NCF023_MoveRelative2_DINT



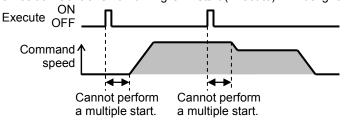


Restrictions Other

• The torque command value at torque limit can be set with the following Servo Parameters. Setting of "Torque limit selections" is required to use G-Series Servo Drives. Torque limit functions do not operate if the setting is incorrect.

perate if the setting is incorrect.						
Drive	PRM No.	Parameter name	Size	Unit	Setting range	Set value
W-Series	Pn404	Forward rotation external current limit	2	%	0 to 800	Arbitrary value
	Pn405	Reverse rotation external current limit	2	%	0 to 800	Arbitrary value
G-Series	Pn003	Torque limit selection	2	%	1 to 5	3:Switch limit by input signals
	Pn05F	No.2 torque limit	2	%	0 to 500	Arbitrary value

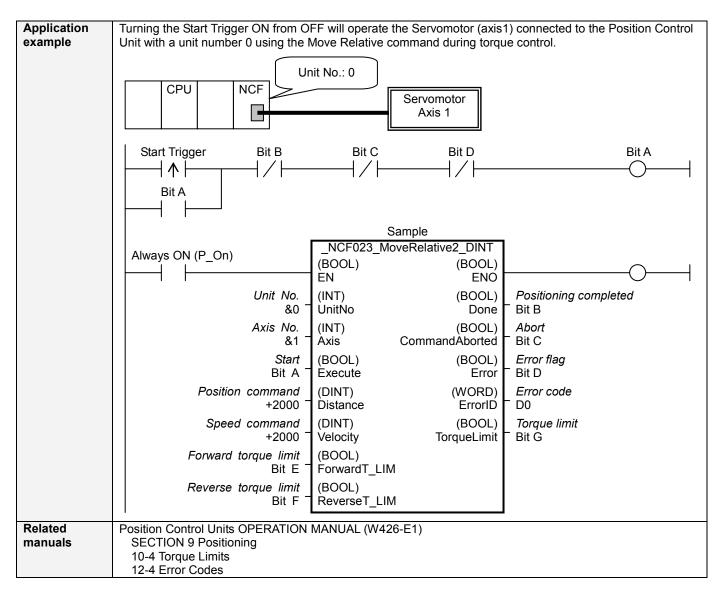
•A multiple start cannot be performed by the same instance until the Positioning command is accepted by the Position Control Unit. Turning ON "Start (Execute)" will be ignored.



- •The following cannot be specified for this FB: "Acceleration/deceleration curve designation". If this function is required, specify it in advance outside the FB.
- •This FB uses Unit Error Reset, Write Data, Read Data and Save Data Bits of the Position Control Unit (see Note). Therefore, do not turn these bits ON or OFF between the period from the rising edge of EN to the rising edge of ENO. For the same reason, do not use these bits for coil outputs (OUT commands).
- •The output variable of FB may not change even if EN is turned ON. In that case, check if any of Unit Error Reset, Write Data, Read Data and Save Data Bit is left ON.
- •This FB uses the Relative Movement Bit in the Axis Operating Output Memory Areas. Therefore, do not turn these bits ON or OFF until the operation is completed. For the same reason, do not use these bits for coil outputs (OUT commands).
- Starting this FB while the Interrupt Feeding Bit of Axis Operating Output Memory Areas is ON will cause an error.

Note:

For calculation of bit addresses, these bits are referenced in this FB in the first execution of each instance, and when changing "Unit No. (UnitNo)", "Axis No. (Axis)" of the input variable and set "Start (Execute) ".



■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)		
Position command	Distance	DINT	+0	-2,147,483,648 to	Specify the distance for relative
				+2,147,483,647	movement.
					Unit: Command units
Speed command	Velocity	DINT	+0	+0 to	Specify the target speed.
				+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 torque limit	ReverseT_LIM	BOOL	0(OFF)		Specify the torque limit in reverse
					direction.

Output Variables

Name	Variable name Data type Range		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		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 <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.		
Torque limit	TorqueLimit	BOOL		1(ON) indicates that output torque is being limited.		

■Version History

Telephone					
Version	Date	Contents			
1.00	2005.01.	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

_ Lopgrade Details				
Version	Contents			
1.10	In the version 1.00, 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.