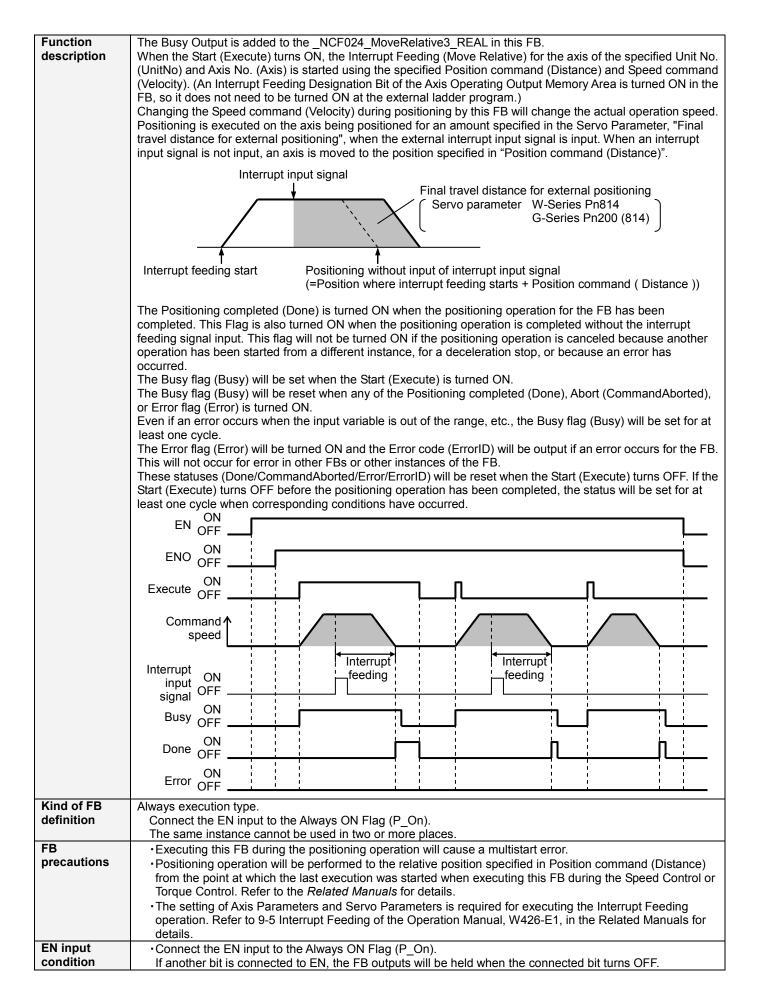
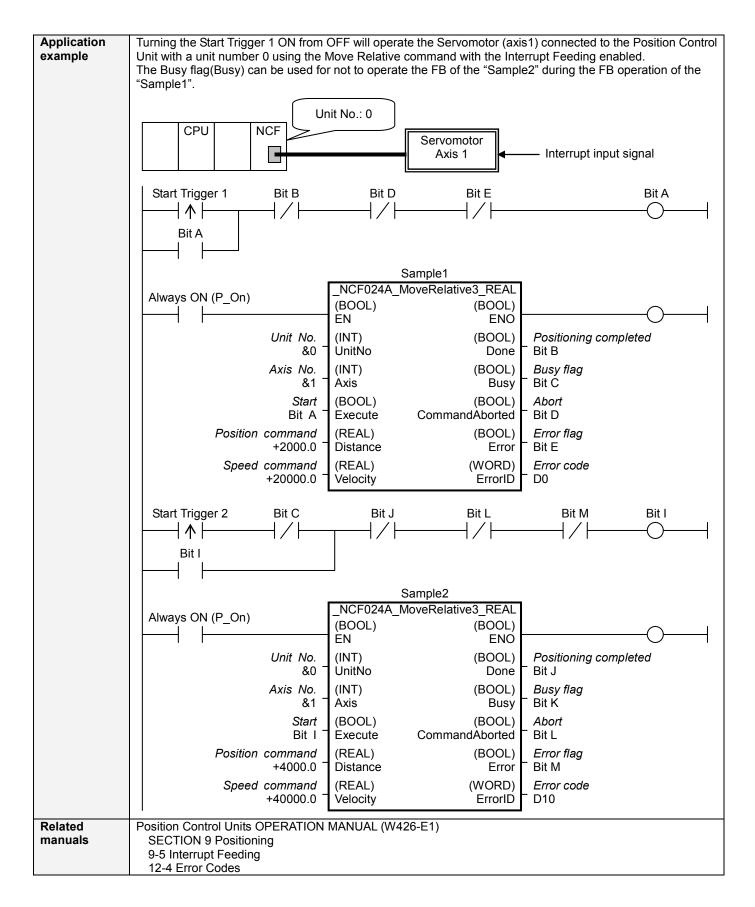
NCF	
024A	

Move Relative with Interrupt Feeding (REAL) _NCF024A_MoveRelative3_REAL

Basic function	Executes Interrupt Feeding with Move Relative command. (Busy attachment)					
Symbol	NCF024A_MoveRelative3				1	
	Always ON (P_On)		(BOOL)	(BOOL)		
			EN	ENO		
			(INT)	(BOOL)		
		Unit No. –	UnitNo	Done	 Positioning completed 	
		Axis No. –	(INT) Axis	(BOOL) Busy	– Busy flag	
		Start -	(BOOL) Execute	(BOOL) CommandAborted	– Abort	
	Position	command -	(REAL) Distance	(BOOL) Error	 Error flag 	
	Speed	command -	(REAL) Velocity	(WORD) ErrorID	– Error code	
File name	Lib\FBL\omronlib\Positi	onController	NCF\ NCF02	24A MoveRelative3 R	EAL10.cxf	
Applicable	Position Control Unit	CJ1W-NCF	71, CS1W-N	CF71		
models	CPU Unit			on 3.0 or later		
				on 3.0 or later		
		CP1H	** Unit Versio	IT 5.0 OF IALEI		
	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 in		n Control Unit	version 1.3 or later)		
	■CX-Programmer Settin		Position Cont	trol I Inite will not operat	te if the area H512 or higher (default	
	setting) is specified as the Non Retain Area through the Function block 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 PLC/Function Block Memory/Function Block Memory Allocation from the Menu Bar.					
	Function Block Memory Allocation [NewPLC1]					
			Address Size	ОК		
	No Retain H512 Retain H140			Cancel		
	Timers T3072	2 T4095	5 1024	Edit		
	Counters C307	2 C409	5 1024	Default		
			Specify unused	area.		
		T	The required siz	e varies depending on the	used FB and the number of FBs. am is specified or sufficient free	
		s			er will display a compile error.	
	Function Bloc Memory Alloc		<u> </u>			
	FB Instanc Tea Start / No Retain D320		Address St. 67 748	ОК		
	Retain H140	8 H153	5 128	Cancel		
	Timers T3072 Counters C307					
				Default	For example, to use the memory area from D32020 to D32767	
				Advanced	(748 words), specify the	
					addresses as shown in the left.	



Destrictions	
Restrictions	• Changing the Speed command (Velocity) during positioning by this FB will change the actual operation
Other	speed. However, the speed will not be changed if the Speed command (Velocity) is less than
	-2.147483e+009 or exceeds +2.147483e+009.
	Ex.1) When changing the Speed command value +1000.0(+1000) to +2.147483e+009 during the
	operation: The speed command value for the Position Control Unit is changed to
	+2.147483e+009(+2147483000). Some Position Control Units may cause an error.
	Ex.2) When changing the Speed command value +1000.0(+1000) to +2.147484e+009 during the
	operation: The Speed command value for the Position Control Unit remains +1000.0(+1000) without any change.
	• The following cannot be specified for this FB: "Acceleration/deceleration curve designation", "Forward
	rotation current limit designation" and "Reverse rotation current limit designation". If any of these functions
	is required, specify them 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/ Interrupt Feeding 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).
	Nete:
	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	REAL	+0.0	-2.147483e+009 to	Specify the target position.
				+2.147483e+009	Unit: Command units
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.

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 <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
1.01	2006.01	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.