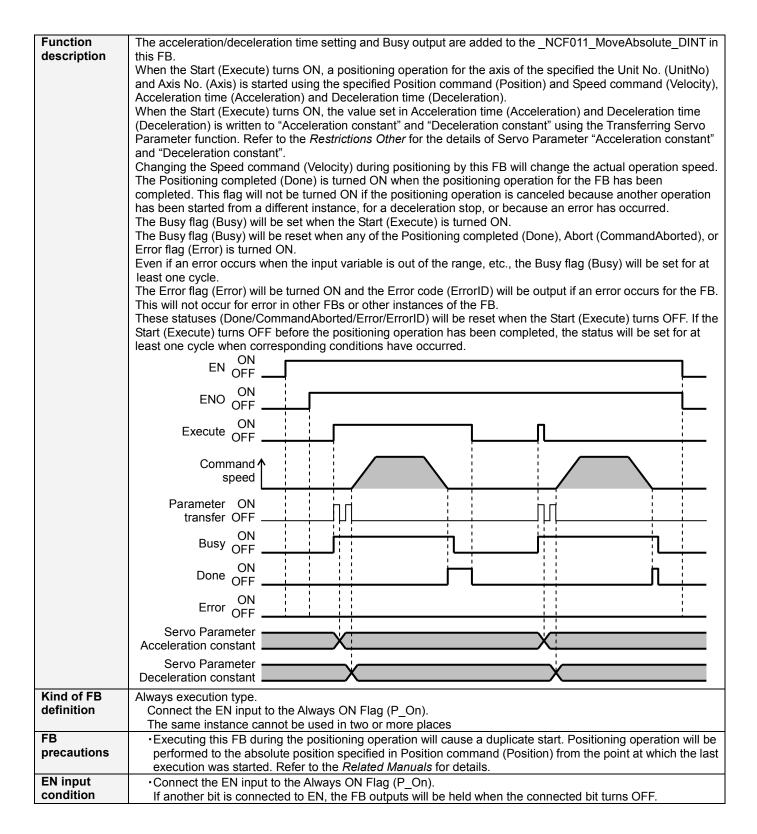
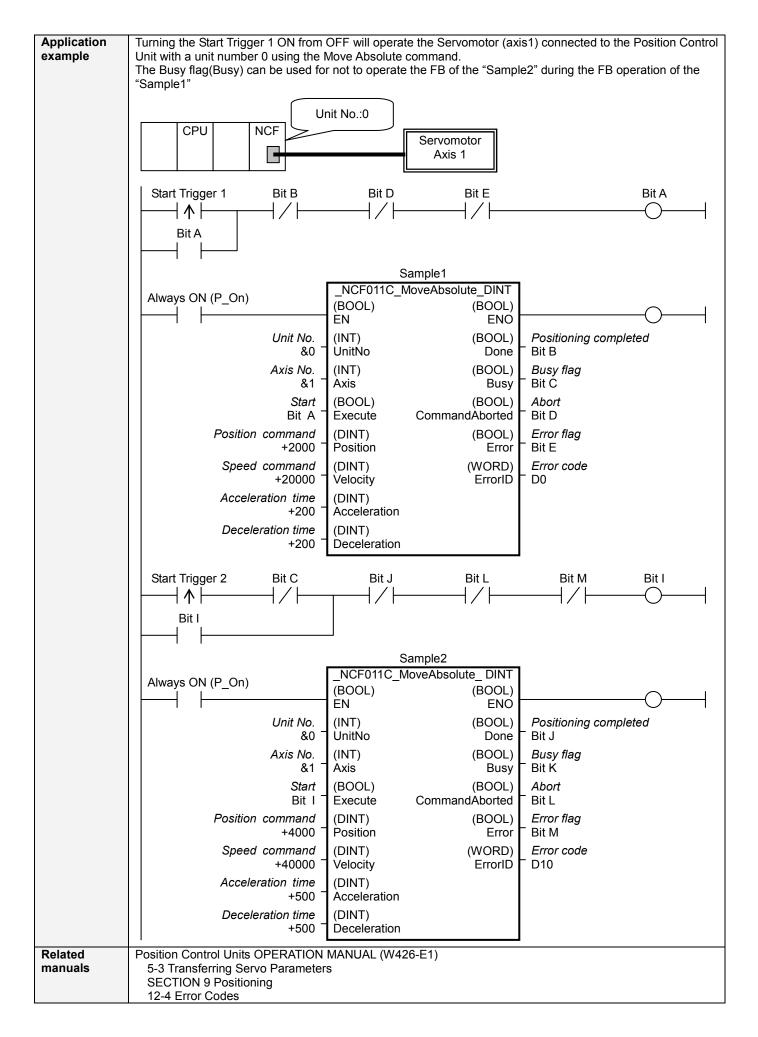
MOVE Absolute (DINT) _NCF011C_MoveAbsolute_DINT

Basic function	Executes positioning wi	th the absolu	ite movement	(Acceleration/De	eceler	ation time setting, Busy attachment)	
Symbol				•			
	Always ON (P_On)	(BOOL)	_MoveAbsolute_D (BC	DOL)			
		EN		ENO	O		
		(INT) UnitNo		DOL) Done	 Positioning completed 		
		Axis No	(INT) Axis		DOL) Busy	– Busy flag	
		Start -	(BOOL) Execute	(BC) CommandAbc	DOL) orted	– Abort	
	Position	command -	(DINT) Position		DOL) Error	– Error flag	
	Speed	command -	(DINT) Velocity	(WC Err	ORD) rorID	- Error code	
	Acceler	ation time -	(DINT) Acceleration	1			
	Decele	ration time –	(DINT) Deceleratior	I			
File name	Lib\FBL\omronlib\Positi	onController	NCF\ NCF01	1C MoveAbsolut	te DIN	JT10.cxf	
Applicable	Position Control Unit	CJ1W-NCF	71, CS1W-N	CF71	_		
models	CPU Unit			on 3.0 or later			
			*H Unit Versio				
		CP1H	** Unit Versio	IT 5.0 OF TALEF			
	CX-Programmer	Version 5.0	or later				
Languages in	Ladder programming						
function block definitions							
Conditions for	The following conditions	s for usage s	hould be the l	Position Control U	Jnit ve	rsion 1.2 or earlier.	
usage	(It will not be required in	n the Positior					
	■CX-Programmer Settin						
	The function blocks related to the Position Control Units will not operate 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 <i>PLC/Function Block Memory/Function Block Memory Allocation</i> from the Menu Bar.						
	Function Block Memory Allocation [NewPLC1]						
	FB Instance Area Start		Address Size	ОК			
	Retain H140	B H153	5 128	Cance	el		
	Timers T3072 Counters C307						
				Defaul	lt		
	Specify unused area. The required size varies depending on the used FB and the number of FBs.						
	If an area being used in the ladder program is specified or sufficient free						
	Function Bloc Memory Allocation [NewPLoss						
	FB Instance Tea Start	Address End A	Address S				
	No Retain D320 Retain H140	20 D327	67 748	OK Cance	2		
	Timers T3072	2 T409	5 1024	Edit			
	Counters C307	2 C409	5 1024	Defaul		For example, to use the memory	
				Advance		area from D32020 to D32767 (748 words), specify the	
						addresses as shown in the left.	



Restrictions		ion /docoloration	a a mata mta a ma a a la vilata a	المححط	an "Charled as managed	$() (a a a; b))^{n}$				
Other			 constants are calculated on)" and "Deceleration tir 							
			ge, it will be adjusted to b							
	specified acce	eleration/deceler	ration time may be altered	d.						
		Acceleration/De PRM No.	celeration constant setting rang			Cotting range				
	Drive		Parameter name Second-step linear	Size	Unit ×10000 command	Setting range				
	W-Series	Pn80B	acceleration constant	2	units/s ²	1 to 65535				
		Pn80E	Second-step linear deceleration constant	2	×10000 command units/s ²	1 to 65535				
	G-Series	Pn107 (80B)	Linear Acceleration constant	2	×10000 command units/s ²	0 to 65535 (Note)				
		Pn10A (80E)	Linear deceleration constant	2	×10000 command units/s ²	0 to 65535 (Note)				
			ly changes to 1.							
			ified for this FB: "Accelera							
	rotation currei	nt limit designati	on" and "Reverse rotatior ance outside the FB.	i curren	t limit designation if a	any of these functions is				
			cording to unit versions of	of the Po	osition Control Units v	when executing this FB				
		gin Search oper	ration.			-				
	Earlier thar	Earlier than 2.0 A Multistart error occurs right after parameters are transferred. Do not execute this FB during the Origin search operation.								
	2.0 or later		ameter transferring status pletion, the Move Absolut			h is completed. After				
	Earlier	than Version 2.0) Vers	sion 2.0	or later					
	Origin s	ON	Origin							
	Ex	ON ecute OFF		xecute						
	Servo Para	meter ON	Servo Para	ameter	ON	n				
		ansfer OFF		ransfer	; · · ;	J [
		solute ON ement OFF		osolute vement						
		Busy OFF		Busy	ON OFF					
		ON Done OFF		Done	ON OFF					
		Error ON OFF		Error	ON OFF					
	Comm	nand speed	Com	mand s	peed					
	T T Multistart Error occurs Origin search ends Absolute Movement ends									
	 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 Absolute Movement/ Write Servo Parameter 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 when changing "	[:] bit addresses, t Unit No. (UnitNo	these bits are referenced)", "Axis No. (Axis)" of the	in this F e input v	B in the first executio ariable and set "Start	n of each instance, and t (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	Position	DINT	+0	-2,147,483,648 to	Specify the target position.
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.
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 Vari	ables			
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		 (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 Absolute Movement Bit is changed by the other FB during Absolute 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 Absolute Movement is executed by this FB. The Write Servo Parameters.

■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.