NCCPU Speed Control(REAL): _NCCPU030_MoveVelocity_REAL

Basic function	Controls speed.					
Symbol						
-	Always ON (P_On)		(BOOL)	oveVelocity_REAL (BOOL)		
			ÈN	ENO	\bigcirc	
	Axis No.		(INT)	(BOOL)	_ Speed reached	
		Start	Axis	InVelocity	Error flag	
			(BOOL) Execute	(BOOL) Error	Error code	
	Spee	d command	(REAL) Velocity	(WORD) ErrorID	_ (May be omitted)	
	Acce	leration rate	(REAL)	LIGHD		
	Dulas au		Acceleration (INT)			
	Puise ou	tput method	OutPulseSelect			
File name	Lib\EBL\omranlib\ Dooiti	on Controllo			 U030_MoveVelocity_REAL10.cxf	
Applicable	CPU Unit			version 3.0 or hig		
Applicable		CP1L-***D				
		CP1L-***D				
models	CX-Programmer	Version 5.0) or higher			
Conditions	None					
for usage	F	6	(11 A		
Function description			out specified with	the Axis No. (A)	is) using the Speed command (Velocity)	
description	when Start (Execute) is turned ON. The Speed reached (InVelocity) will be turned ON once the speed reaches the target speed specified in this					
	FB. If the speed control is interrupted by a deceleration stop caused by another instance or error, the Speed					
	reached (InVelocity) will be reset.					
		l be turned	ON and Error co	de (ErrorID) will b	e output when an error related to this FB	
	occurs.	//				
					code (ErrorID), will be reset when Start sitioning is completed, the status will be	
	set for at least one cycle				sitioning is completed, the status will be	
	EN ON		responding cond			
	OFF					
	ENO ON					
	OFF					
	Execute ON					
	OFF			┛└───		
	Target speed					
	Command					
	speed			_/		
	InVelocity ON OFF			n		
	Error ON					
	OFF					
Kind of FB	Connect Always ON type	е				
definition	Connect the EN input to the Always ON Flag (P_ON).					
	The same instance ca					
FB	• When using the Pulse output 0 and 1 simultaneously, use the same Pulse output method for them.					
precautions	• When speed is changed by the other command before the speed reaching, this FB will output an error.					
	 Turning ON the input to the Start (Execute) during speed control will cause multistart, which then leads to speed control with the speed set in Speed command (Velocity). 					
	 When already in speed control operation, direction specification (sign of the Speed command (Velocity)) will 					
	be ignored and only the speed will be changed. To reverse the direction of the operation, stop the operation					
	once and execute the	speed comn	nand with the op	posite direction s		
EN input	Connect the EN input t	o the Alway	s ON Flag (P_O	N).		
condition		is connected	d to EN, the FB c	utputs will be ma	intained when the connected bit is turned	
Restrictions	OFF.During positioning oper	ration this r	B can not be av	ecuted		
Other					be executed during the Origin Search	
	operation.		,			



Variable Table

Input Variables

Name	Variable name	Data type	Default	Range	Description
EN	EN	BOOL			1 (ON): Starts FB
					0 (OFF): Does not start FB
Axis No.	Axis	INT	&0	&0 to &1	&0: Pulse output 0
					&1: Pulse output 1
Start	Execute	BOOL	0(OFF)		
Speed command	Velocity	REAL	+0.0	-100000.0	Specifies the target speed.
				to	Unit: Hz
				+1000000.	
				0	
Acceleration rate	Acceleration	REAL	+1.0	+1.0	Specifies the acceleration rate.
				to	Unit: Hz/4ms (Increase (Hz) in Pulse
				+65535.0	frequency per Pulse control period (4ms))
Pulse output	OutPulseSelect	INT	&0	&0 to &1	&0: CW/CCW output
method					&1: Pulse + direction output

Output Variables

Name	Variable name	Data type	Range	Description
ENO	ENO	BOOL		1 (ON): FB operating normally
				0 (OFF): FB not operating normally
Speed reached	Invelocity	BOOL		1 (ON) indicates that the target speed has been reached.
Error flag	Error	BOOL		1 (ON) indicates that an error has occurred in the FB.
Error code	ErrorID	WORD		The error code of the error occurred in the FB will be output. For
(May be omitted)				details of the errors, refer to the sections of the manual listed in the
				Related manuals above. When Unit No. or Axis. No. is out of the
				range, #0000 will be output.

Revision History

Version	Date	Contents
1.00	2005.2.	Original production

Note

This manual is a reference that explains the function block functions.

It does not explain the operational limitations of Units, components, or combinations of Units and components. Always read and understand the Operation Manuals for the system's Units and other components before using them.