AdvManLab:MainTask:MainProgram Total number of rungs in routine: 1

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P PF52x: PROCESS -- PowerFlex 523 / 525 DRIVE

Revision 3.1-00 Release: 2014-07-08. See V3.1-xx Release Notes for details.

V3.1-00: 2014-07-08. New instruction for PlantPAx Library 3.1

This Instruction controls and monitors a PowerFlex 523 Variable-Frequency Drive with optional EtherNet/IP Interface, or a PowerFlex 525 Variable-Frequency Drive with embedded or optional add-on EtherNet/IP Interface.

REQUIRED DRIVE CONFIGURATION

Be certain to set up the drive Datalinks as follows! 'User Choice' Datalinks are not used by this AOI and may be left unused or set up for your application.

> INPUT ASSEMBLY: Drive Status (standard) Output Frequency (standard) 1. Fault 1 Code (Par 007) 2. Output Current (Par 003) 3. Output Power (Par 017)

4. User choice

OUTPUT ASSEMBLY:

Drive Logic Comnmand (standard) Frequency Command (Speed Reference) (standard) All 4 output datalinks are user choice.

______ Create a Tag of type P_PF52x_Inp, and create a Tag of type P_PF52x_Out

to buffer the starter's Input and Output data. Then add these Tags in the Input and Output parameters of the P_PF52x instruction instance and replace operands in the "COP" and "MVM"/"MOV" instructions as described below. In these examples, the names given to various tags are as follows:

- * The backing tag for the P PF52x AOI is "SC105".
- * The Input buffer tag (of type P_PF52x_Inp) is "SC105_I".

 * The Output buffer tag (of type P_PF52x_Out) is "SC105_O".
- * The PowerFlex 525 drive in the I/O tree of the controller organizer is "SC105 Drive".
- * Given that name, the drive's Input Assembly is "SC105 Drive:I" and its Output Assembly is "SC105_Drive:O".

1. In the COP, replace the Source operand with the actual Input assembly from the starter, and replace the Destination operand with the input buffer tag of type P PF52x Inp you created, for example:

> COP SC105 Drive:I SC105 I Len=1

2. In the AOI instance, put the buffer tags in the InOut parameters, for example:

> Inp is SC105_I Out is SC105_O

2. In the MVM, replace the Source operand with the LogicCommand element of the Tag of type P_PF52x_Out you created, and replace the Destination operand with the LogicCommand element of the actual Output Assembly going to the drive, for example:

> MVM SC105 O.LogicCommand 2#0000 0000 0011 1111 SC105 Drive:O.LogicCommand

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