Ethernet Positioning

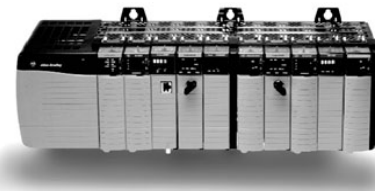**APPLICATION SOLUTION PACKAGE**

EtherNet/IP™

Modbus/TCP

Many machines feature a programmable logic controller (PLC) as the main control and HMI interface device. Traditionally, PLCs have not provided the optimal platform for motion control and creating an effective interface between PLC and motion controller has been challenging.

An Ethernet connection over Modbus/TCP or Ethernet/IP protocol enhances such a connection by increasing the amount of data that can be effectively transferred.

The Ethernet Positioning Solution from Yaskawa provides a library of PLCopen-based functions for MP2000iec controllers that users can import into their IEC61131-3 control program to pass motion commands and axis status between the PLC and motion controller.

Leveraging the pre-built core solution code will save program development time for the software engineer and help speed project completion.

PLC images obtained from public sources

Name	Usage	Description	Address
Axis1	VAR_GLOBAL		
⊟ E/IP Input Instance #111,ress Range: %IB0-%IB127			
Axis1_CmdPos	VAR_GLOBAL		%IW8
Axis1_CmdDecel	VAR_GLOBAL		%IW6
Axis1_CmdAccel	VAR_GLOBAL		%IW4
Axis2_HomeOffAccel	VAR_GLOBAL		%IW38
Axis2_HomeOffVel	VAR_GLOBAL		%IW36
Axis2_HomeType	VAR_GLOBAL		%IW34
Axis2_GearMaster	VAR_GLOBAL		%IW32
Axis2_GearRatio	VAR_GLOBAL		%IW30
Axis2_CmdPos	VAR_GLOBAL		%IW28
Axis2_CmdDecel	VAR_GLOBAL		%IW26
Axis2_CmdAccel	VAR_GLOBAL		%IW24
Axis2_CmdVel	VAR_GLOBAL		%IW22
Axis2_Control	VAR_GLOBAL		%IW20
Axis1_CmdVel	VAR_GLOBAL		%IW2
Axis1_HomeOffAccel	VAR_GLOBAL		%IW18
Axis1_HomeOffVel	VAR_GLOBAL		%IW16
Axis1_HomeType	VAR_GLOBAL		%IW14
Axis1_GearMaster	VAR_GLOBAL		%IW12
Axis1_GearRatio	VAR_GLOBAL		%IW10
Axis1_Control	VAR_GLOBAL		%IW0

Yaskawa Solution Packages™ provide:

- Improved Ease of Use

- Reduced Risk

- Reduced Total Cost of Ownership

- Pre-engineered Performance

For more information and to discuss your application, contact your local Yaskawa Channel Partner or find them at www.yaskawa.com/partners.

IEC

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