## Registering and Configuring a Lenze SMVector EDS File in RSLogix<sup>™</sup> 5000

This application note applies to RSLogix<sup>™</sup> 5000 version 20 and higher which allows users to register EDS files into the software for simplified configuration of Ethernet IP-equipped third party devices. The following instructions outline the process to register the EDS file for the Lenze ESVZAE0 SMVector Ethernet IP adapter module.

Start by clicking on "Tools" from the top menu and then select "EDS Hardware Installation Tool".

| RSLogix 5000 - LACT_TEST_UNIT [1756-L75 20.11]* - [Ca   | ontroller Tags - LACT_TEST_UNIT(con                    | troller)]  | and the second second  | -            | -       | -         | -                             |            |   | - 0 ×             |
|---|--|------------|------------------------|--------------|---------|-----------|-------------------------------|------------|---|-------------------|
| File Edit View Search Logic Communication   | s Tools Window Help                                    |            |                        |              |         |           |                               |            |   | - 5 >             |
|   | Options<br>Security                                    | •          | Selection Selection    | t a Language | - 9     |           |                               |            |   |                   |
| No Forces   | 🛍 🥪 Documentation Languages                            | вскріа     | new TE                 |              |         |           |                               |            |   |                   |
| No Edits  | Import   | · · · · () | ) • •                  |              |         |           |                               |            |   |                   |
| Redundancy and L  |  | Auar       | A DI A MIENC           |              |         |           | The countries                 | 200        |   |                   |
| 🖁 📄 🔄 Controller LACT_TEST_UNIT   | B CD'S Hardware installation To                        | All to     | ngs<br>et a latatus de | Transverie 6 | l'exa-  | Data Tura | <ul> <li>Increases</li> </ul> | Constant 1 | A Description   |                   |
| Controller Tags   | Motion<br>Monitor Equipment Pharer                     | · –        | e value                | FUICE Mask   | Decimal | DINT      | Description                   | Constant   | Properties  | ē                 |
| Power-Up Handler  | Monitor Equipment Enases                               |            | (                      |              | Decimal | DINT      |                               |            | General   | -                 |
| 📄 🛅 Tasks   | Custom Tools   |            | 0.0                    | 1            | Float   | REAL      |                               |            | Name  | Drive_Mode_Sel    |
| 🛱 🤯 MainTask  | ControlFLASH   |            | {]                     | {}           |         | MESSAGE   | -                             |            | Usage   | <normal></normal> |
| 由 🕞 MainProgram   |  | _          |                        |              | Decimal | INI       |                               |            | Alize For   | Base              |
| Unscheduled Programs / Phases   | inggeri  |            |                        | 1            | Decimal | BUUL      |                               |            | Base Tag  |                   |
| G User-Defined<br>G Strings<br>G Ad-On-Defined<br>G G Module-Defined<br>G G Module-Defined<br>G Tends<br>G Tends<br>G To Defined<br>G To Define |  |            |                        |              |         |           |                               |            | Style<br>- Contant<br>Required<br>Weble<br>Description<br>B Data<br>E Ø forderer Cf | Decimal<br>No     |
| . · · · · · · · · · · · · · · · · · · ·   | Image: A monitor Tags<br>↓ Monitor Tags<br>↓ Edit Tags | 7          |                        | ];           | 4       |           | 10                            |            |   |                   |

You will now see the startup screen for the EDS Registration Tool (or EDS Wizard). Click "Next".



Select "Register an EDS file(s)" and then click "Next".

| Option<br>W | ns<br>hat ta | ask do you want to complete?   |
|-------------|--------------|--|
| 5           | •            | Register an EDS file(s).<br>This option will add a device(s) to our database.  |
| 2           | C            | Unregister a device.<br>This option will remove a device that has been registered by an EDS file from<br>our database. |
|             | C            | Create an EDS file.<br>This option creates a new EDS file that allows our software to recognize your device.           |
|             | c            | Upload EDS file(s) from the device,<br>This option uploads and registers the EDS file(s) stored in the device.         |
|             |              |  |

Select "Register a single file" then select "Browse".

| Electronic Data Sheet file(s) will be<br>Automation applications.      | e added to your system for use in Rockwell   |
|--|--|
| Register a single file   |  |
| Register a directory of EDS files                                      | Look in subfolders   |
| Named:   |  |
|  | Browse   |
|  |  |
| If there is an icon file (ico) w<br>then this image will be associated | with the same name as the file(s) you are registering<br>lated with the device.<br>To perform an installation test on the file(s), click |

Browse to the folder location where you have stored the EDS file for the Lenze Ethernet IP adapter and select that file. Then select "Open".



| Organize - New folder  |   |
|--|---|
| <ul> <li>★ Favorites</li> <li>■ Desktop</li> <li>↓ Downloads</li> <li>₩ Recent Places</li> </ul> | Documents library Arrange by: Folder      Name     SMVET103.eds |
| Libraries     Documents     My Documents   |   |
| <ul> <li>Public Documents</li> <li>Music</li> <li>Pictures</li> <li>Videos</li> </ul>            |   |
| Computer LUS0645   | + * m   |

The path to the EDS file will now appear in the "Named" field. Select "Next".

| Registration<br>Electronic Data Sheet file(s) will be a<br>Automation applications. | added to your system for use in Rockwell                                  |
|---|---|
| <ul> <li>Register a single file</li> </ul>  |   |
| Register a directory of EDS files   | 🖵 Look in subfolders  |
| Named:  |   |
| Vanastaid vasei juucse vtariiri (My DOCU  | Iments \call logs \2012\8-2012\8-   |
| • If there is an icon file (ico) with<br>then this image will be associate          | h the same name as the file(s) you are registering<br>ed with the device. |

Select "Next". The EDS file will be checked for errors by the tool.

| EDS File Installat<br>This test evalua<br>guarantee EDS | ion Test Results<br>es each EDS file for errors in the EDS file. This test does not<br>ile validity. |     |
|---|--|-----|
| - 🕒 Installation Te                                     | it Results   | _   |
| Vuxbs-rai   | i\user_docs\$\kahn\my documents\call logs\2012\8-2012\8-17-2012\                                     | smv |
|   |  |     |
|   |  |     |
|   |  |     |
|   |  |     |
| t. [  | m  |     |
|   | 10   |     |
| View file   | 10   |     |
| View file   | in .   |     |

If the icon (.ico) file was saved to the same directory as the EDS file you browsed to, that icon will now be displayed. Select "Next" to accept the icon.

| You can cha | c Image<br>nge the graphic image that is associated with a device. |
|-------------|--|
|             | Product Types  |
| Change icon | AC Drive Device  |
|             | AC Tech SMV Drive with Ethernet/IP Communic                        |
|             |  |
|             |  |
|             |  |
|             |  |
|             | × F  |
|             | 4 M  |

Select "Next" to register the Lenze Ethernet IP adapter.

| Final Task Summary<br>This is a review of the task you wan | t to complete.                             |              | Y |
|--|--|--------------|---|
| You would like to register the<br>AC Tech SMV Drive with   | following device.<br>Ethernet/IP Communica | ation Module |   |
|  |  |              |   |
|  |  |              |   |
|  |  |              |   |
|  |  |              |   |

Select "Finish" to complete the process.



Right click on your Ethernet network in the RSLogix<sup>™</sup> 5000 project you want to add the Lenze drive to and select "New Module".



Scrolling through the alphabetized list you will find the Lenze Ethernet IP adapter is available to be selected. Select the module and then click "Create".

|      |   |   |                | _  |                                  |   |   |     |
|------|---|---|----------------|--|----------------------------------|---|---|-----|
| Ente | er Search Text for Module                         | Type  | lear           | Filte  | rs                               |   | Hide Filters                                    | *   |
| V    | Module Ty   | vpe Category Filters  | *              |  | ers                              | *   |   |     |
|      | AC Drive Device Communication Controller Digital  |   |                | Allen-Bradley     Cognex Corporation     Endress+Hauser     Learse-AC Tach Com |                                  |   | - m - +   |     |
| 4    | 1   | II I  |                | -  | m                                |   |   |     |
| Ca   | talog Number                                      | Description   |                |  |                                  | Vendor  | Category  |     |
|      | E84DGFCG Motec<br>E84DGYCG protec                 | AC Drive Motec with EtherN<br>AC Drive protec with EtherN                           | et/IP<br>et/IP | Con<br>Con   | munication Mod<br>munication Mod | Lenze-AC Tech<br>Lenze-AC Tech                  | AC Drive Device<br>AC Drive Device              |     |
|      | ESVXxx  | AC Tech SMV Drive with Et   | heme           | at/IP  | Communication                    | Lenze-AC Tech                                   | AC Drive Device                                 |     |
|      | EtherNet/IP<br>ETHERNET-BRIDGE<br>ETHERNET-MODULE | SoftLogix5800 EtherNet/IP<br>Generic EtherNet/IP CIP Bri<br>Generic Ethernet Module | dge            |  |                                  | Allen-Bradley<br>Allen-Bradley<br>Allen-Bradley | Communication<br>Communication<br>Communication | +   |
| 4    |   | III   |                |  |                                  |   | *   |     |
| 222  | of 222 Module Types Fou                           | nd  |                |  |                                  |   | Add to Favorit                                  | tes |

Enter a name for the drive and the drive's IP address. In this example the name used is "MY\_EIPSMV\_FROM\_EDS". The IP address in this example is "192.168.124.11". Next, a connection must be created to map the assemblies to the implicit messaging. Click the "Change..." button under Module Definition.

| Type:<br>Vendor: | nection   Module Into   Internet P<br>ESVxxx AC Tech SMV Drive wi<br>Lenze-AC Tech Corp. | rotocol   Port Contigurati<br>ith Ethernet/IP Communic | n<br>ation Module   |            |
|------------------|--|--|---|------------|
| Parent:<br>Name: | Local_Backplane_Ethernet_Mo  | odule  | Ethernet Address  |            |
| Description:     |  | *  | <ul> <li>Private Network:</li> <li>IP Address:</li> <li>Host Name:</li> </ul> | 192.168.1. |
| Madula Daf       | ullina.  | 1  |   |            |
| Revision:        | 1.1  |  |   |            |
| Electronic K     | eying: Compatible Module   |  |   |            |
| Connection       | s: Exclusive Owner - Bas   | ic Speed Ctrl Out                                      |   |            |
|                  |  | Change   |   |            |

In this example (as with most applications) the PLC will be both controlling and also receiving status from the drive. We will allow access to both speed and the on board drive I/O. Set the "Name" to "Exclusive Owner – Speed Hz Custom Ctrl out". This uses assemblies 101 for status and 100 for commands to the drive.



NOTE:

"Input" and "Output" are from the PLC's perspective.

"Drive Input" assemblies are status polled FROM the drive. "Drive Output" assemblies are commands sent TO the drive.

#### The following drive parameter settings must first be programmed via the drive's keypad:

- P400 = 5 (Ethernet)
- P410 P413 = the required IP address. (192.168.124.11)
- P414 P417 = the required subnet mask. (The default is 255.255.255.0)
- P418 P421 = the required Gateway address. (The default address is 192.168.124.1)
- P426 = the required TTL (The default TTL value is 1)
- P100 = 3 (Network only)
- P101 = 6 (Network)
- P112 = 1 Rotation (Used to enable bi direction rotation of the motor).
- P121= 9 (This configures digital input 13A as "Network Control". TB13A must be closed to enable write access to the drive parameters and to perform any network control of the unit.)
- P140 = 25 (This allows the network to control the on board relay)
- P142 = 25 (This allows the network to control the TB-14 output)
- P150 = 9 (This allows the network to control the 0-10VDC analog output)

| Туре:        | ESVxxx AC Tech SM                       | IV Drive with Ethernet/IP Commu                                       | inication M | Iodule | -      | _     |        |         |   |
|--------------|---|---|-------------|--------|--------|-------|--------|---------|---|
| Vendor:      | Module Definitio                        | n*  |             |        |        |       | x      |         |   |
| Parent:      | Revision:                               | 1 • 1 •   |             |        |        |       |        |         |   |
| Name:        | Electronic Keying:                      | Compatible Module   | ÷           | ]      |        |       |        |         |   |
| Description: | Connections:                            |   |             |        |        |       |        | E       |   |
|              | Name                                    |   | r i         | Size   | _      | Tag S | Suffix | 24 . 11 |   |
|              | Exclusive Owne                          | er - Speed Hz Custom Ctrl out   | Input:      | 8      | CINT   | 1     | MY_    |         | 1 |
|              |   |   | Output:     | 8      | 3101   |       | MY_    |         |   |
|              | Exclusive Owne<br>Exclusive Owne        | r - Basic Speed Ctrl Out<br>r - Ext. Speed Ctrl Out                   |             |        |        |       |        |         |   |
| Module De    | Exclusive Owne                          | r - Speed Hz Custom Ctrl out  | <u> </u>    |        |        | _     |        |         |   |
| Revision:    | Exclusive Owne                          | r - PiD Setpoint Custom Ctrl out<br>r - Torque Setpoint Custom Ctrl o |             |        |        | _     |        |         |   |
| Electronic   | Exclusive Owne                          | r - Custom Selectable Ctrl out  | -           |        |        |       |        |         |   |
| Connectio    | Input Only - Ext.                       | Speed Ctrl In   |             |        |        |       |        |         |   |
|              | Input Only - Ext.<br>Input Only - PID F | Speed Hz - Custom Ctrl In<br>Feedback - Custom Ctrl In                |             |        |        |       | _      |         |   |
|              | Input Only - Torq                       | ue - Custom Ctrl In   | ок          |        | Cancel | He    | lp 🛛   |         |   |
|              | Listen Only - Bas                       | sic Speed Ctrl In   |             | _      |        | -     |        |         |   |
|              | Listen Only - Ext                       | . Speed Ctrl In   | _           | _      |        | _     |        |         |   |

Next you need to select the data format of the assemblies you are using. Select the "INT" format as it is the easiest to work with in the Rockwell PLC for use with the SMV.



### NOTE:

Data in a given assembly is natively all in the same type data type.

| Rev<br>Elec | vision: 1 • 1 • 1 • 1 • • • • • • • • • • • • | +       | ]    |              |   |       |       |
|-------------|---|---------|------|--------------|---|-------|-------|
|             | Name  | 1       | Size | -            | - | Tag S | uffix |
|             |   | Input:  | 8    | SINT         |   | 1     | MS    |
|             | Exclusive Owner - Speed Hz Custom Ctrl out    | Output: | 8    |              | 1 |       | M     |
|             | Calante comportion                            |         |      | SINT         |   |       |       |
| _           |   |         | _    | DINT<br>REAL |   |       |       |
| 4           |   |         |      | _            |   |       | ,     |
| -           |   |         |      |              | - |       |       |

A tag suffix is used to formulate module-defined tag names. Leave this value set to the default value of "1" and click "OK".

| Revision:<br>Electronic Keying:<br>Connections: | Compatible Module            | •       | Î    |      |            |
|---|------------------------------|---------|------|------|------------|
| Name  |                              | -       | Size |      | Tag Suffix |
| Distantia David                                 |                              | Input:  | 4    | DIT. | 1 🖬 MS     |
| Exclusive Owne                                  | r - Speed Hz Custom Ctri out | Output: | 4    | 101  | * M)       |
| Select a connect                                | ion                          |         |      |      |            |
| < [   |                              |         |      |      |            |
|   |                              |         |      |      |            |
|   |                              |         |      |      |            |

You need to define the Request Packet Interval (RPI). This is how often the PLC will poll the drive. The minimum value which can be supported by the SMV Ethernet IP adapters is 5 msec.

| Name                                       | Requested Packet Interval<br>(RPI) (ms) | Input Type | Input Trigger | r |  |
|--|---|------------|---------------|---|--|
| Exclusive Owner - Speed Hz Custom Ctrl out | 5.0 🜩 1.0 - 3200.0                      | Unicast 💂  | Cyclic        |   |  |
|  |   |            |               |   |  |
| Inhibit Module                             |   |            |               |   |  |

Next, set the Input Type to multicast.

| Name  | Requested Packet Inte<br>(RPI) (ms) | rval Input Type | Input Tr | rigger |
|---|-------------------------------------|-----------------|----------|--------|
| Exclusive Owner - Speed Hz Custom Ctrl out  | 5.0 🚖 1.0 - 3200                    | .0 Multicast    | Cyclic   | ×      |
|   |                                     | Multinast       |          |        |
|   |                                     | Unicast         |          |        |
| Takihi Madula   |                                     | Unicast         |          |        |
| Inhibit Module Maior Fault On Controller If Connection Fails Wh   | ile in Bun Mode                     | Unicast         |          |        |
| <ul> <li>Inhibit Module</li> <li>Major Fault On Controller If Connection Fails Wh<br/>Module Fault</li> </ul> | ile in Run Mode                     | Unicast         |          |        |

If you want the PLC to Fault if it loses communication to the SMV drive, select "Major Fault On Controller If Connection Fails While in Run Mode".

Click "OK" to complete configuring the Ethernet IP connection to the SMV drive.

|  | 1                                     | T             | 1             |
|--|---------------------------------------|---------------|---------------|
| Name                                       | Requested Packet Interv<br>(RPI) (ms) | a) Input Type | Input Trigger |
| Exclusive Owner - Speed Hz Custom Ctrl out | 5.0 💠 1.0 - 3200.0                    | Multicast     | - Cyclic      |
|  |                                       |               |               |
| Inhibit Module                             |                                       |               |               |

The SMV drive will now appear in the Ethernet network with its icon under the controller's configuration in the RSLogix<sup>TM</sup> 5000 navigation tree. The SMV drive's assembly data tags will appear under "Controller Tags". In this example the drives input assembly tags appear as "MY\_EIPSMV\_FROM\_EDS:I1" and the output tags appear as "MY\_EIPSMV\_FROM\_EDS:01".

|  | • #44 10 11 11 11  | Q Sentara     | - 49.00 |          |                 |  |            |                     |                    |
|--|--|---------------|---------|----------|-----------------|--|------------|---------------------|--------------------|
| Offline I. FRUN<br>No Forces F. Frun OK<br>No Edit: The Second S | Path         AB_ETHIP-11132 168 124 20008-adaptaret/0           H         Impl         Impl | * (#)<br>*    |         |          |                 |  |            |                     |                    |
| 😧 Controller Organiter - 9 🗙   | Season Woldert TEST IIt - Show All Lans  |               |         |          |                 | v.   | -          |                     |                    |
| Controller LACT_TEST_UNIT  | I man and the set of the set of the  | al al rad     |         | Tele     | Inutar          | There are a second seco | Internet I | Te museu            |                    |
| Controller Tags  | Prame - Bic V  | 04.01 T FOICE | Marx *  | Style .  | Dara Type       | Description  | Lonstant   | - HODEDES           |                    |
| Controller Fault Handler   | + Past NT  |               |         | Decimal  | DINT            |  | A -        | 211 = 3             |                    |
| Power Up Handler   | Read Taxai   | 0.0           |         | Boal     | REAL            |  | 0          | General             | and minimized laws |
| Tasks  | + SEL Allehede 1   | Ind           | [m]     |          | MESSAGE         |  | n in       | - Nghe              | W. DISWATH         |
| E Co Maintest  | + 16512  | 0             | Juni    | Decenal  | INT             | -  | E I        | Tune                | Home               |
| Datchell ded Brancens / Discer   | Tapper1  | 0             |         | Decimal  | 8001            |  |            | Akas For            | - me               |
| Ha Mation Groups   | - MY EIPSMY FROM EDS IT  | Incit         | Lost    |          | 0248-ESVww A    |  |            | Base Tag            |                    |
| Unprouped Aves   | MY EIPSMY FROM EDS IT ConnectionF.   | 0             |         | Decimal  | BOOL            | -  |            | Data Type           | IN 7141            |
| Add-On Instructions  | - MY EIPSMY FROM EDS /1 Data   | 1)            | first   | Decimal  | INT[4]          |  |            | Scope               | DI LACT_TEST.      |
| 🔄 Data Types   | + MY EIPSMY FROM EDS/11.Datatol  | .0            |         | Decimal  | INT             |  |            | External Acce       | Heal/Wes           |
| Le User-Defined  | + MY_EIPSMV_FROM_EDSHLD#a[1]   | c             |         | Decimal  | INT             |  |            | Coordiant           | Leona .            |
| s fings  | + MY_EEPSMV_FROM_EDSIT.DAL(2)  | ċ.            | -       | Decimal  | INT             |  |            | Request             |                    |
| Add-On-Defined   | + MY_EIPSMV_FROM_EDS/T Data[3]   | G             |         | Decimal  | INT             |  |            | Weble               |                    |
| La Predefined  | - MY_EIPSMV_FROM_EDS.01  | ( )           | beer 1  |          | _0248.ESViest_A |  |            | Description         |                    |
| G Module-Defined   | - MY EIPSMV FROM EDS 01 Data   | []            | [+++]   | Decinial | INT[4]          |  |            | 🕒 Data              |                    |
| in frends  | + MY_EIPSMV_PROM_ED5.01 Data[0]  | ¢             |         | Decimal  | INT             |  |            | E G. Tanks and I am | ann a m a          |
| 1756 Packulage 1756 AND  | + MY EIPSMV FROM EDS:01.Data[1]  | ġ             |         | Decimal  | INT             |  |            | A reason in the     |                    |
| The INT SEAL OF LACT TEST SINT   | + MY_EIPSMV_FRDM_EDS.01.Dwa[2]   | 11            |         | Decimal  | DIT             |  |            |                     |                    |
| - 1 (111756-EN2T Local Backplane Ethernet )  | + MY_EIPSMV_FRDM_EDS-01.0 #a[3]  | <u>á</u>      |         | Decimal  | INT             |  |            |                     |                    |
| <ul> <li></li></ul>  |  |               |         |          |                 |  |            |                     |                    |
| P #ddress39216817411   | 1  |               |         |          |                 |  |            |                     |                    |
|  |  |               |         |          |                 |  |            |                     |                    |
|  | Monitor Tags / Edit Tags /   |               |         | _        |                 |  |            |                     |                    |

Click the "+" next to the assembly tag name to expand the menu to see the full data within each assembly. The user may then create alias tags to reference individual bits in the assembly as they would for any other alias tag in RSLogix<sup>TM</sup> 5000.

For example bit 0, byte 0 of Assembly 100 is RUN\_FWD. We will associate that to a RUN FWD command for a Conveyor #1.

#### Output Assembly 100 - Speed (Hz) & Digital and Analog Output

|     | Dit 0  | 0 = NOT Run Forward      |                          |                         |                       |  |  |  |  |
|-----|--|--------------------------|--------------------------|-------------------------|-----------------------|--|--|--|--|
|     | DIL U  | 1 = Run Forward          |                          |                         |                       |  |  |  |  |
|     | Dit 1  | 0 = NOT Run Reverse      |                          |                         |                       |  |  |  |  |
|     | DILI   | 1 = Run Reverse          |                          |                         |                       |  |  |  |  |
|     | Bit 2  | Fault reset on transitio | n from 0 to 1            |                         |                       |  |  |  |  |
|     | Bit 3  | Reserved                 |                          |                         |                       |  |  |  |  |
|     | Bit 4  | Reserved                 |                          |                         |                       |  |  |  |  |
|     | Bit 5  | 0 = Local Control        |                          |                         |                       |  |  |  |  |
|     | DIU  | 1 = Network Control      |                          |                         |                       |  |  |  |  |
|     | Bit 6  | 0 = Local Speed refere   | ence                     |                         |                       |  |  |  |  |
|     | DILO   | 1 = Network Speed re     | ference                  |                         |                       |  |  |  |  |
| 0 p | Bit 7  | Reserved                 |                          |                         |                       |  |  |  |  |
| Mo  | Bit 8  | Network Speed referer    | nce (valid when bit 6 se | t)                      |                       |  |  |  |  |
| -   | Bit 9  | 0 – Network              | 9 – Preset #6            |                         |                       |  |  |  |  |
|     | Bit 10   | 1 – keypad               | 4 – Preset #1            | 7 – Preset #4           | 10 – Preset #7        |  |  |  |  |
|     | Bit 11   | 2 – 0-10VDC              | 5 – Preset #2            | 8 – Preset #5           | 11 – MOP              |  |  |  |  |
|     | Rit 12   | 0 = No Action            |                          |                         |                       |  |  |  |  |
|     |  | 1 = Inhibit (Coast to S  | ГОР)                     |                         |                       |  |  |  |  |
|     | Bit 13   | 0 = No Action            |                          |                         |                       |  |  |  |  |
|     | Dit 10   | 1 = Activate Quick ST    | )P                       |                         |                       |  |  |  |  |
|     | Bit 14   | 0 = No Action            |                          |                         |                       |  |  |  |  |
|     |  | 1 = Force Manual Mod     | le (active only in Netwo | rk Control, in PID mode | will force open loop) |  |  |  |  |
|     | Bit 15   | 0 = DC brake active      |                          |                         |                       |  |  |  |  |
|     | Bit ito  | 1 = DC brake NOT act     | ve                       |                         |                       |  |  |  |  |
| d 1 | Unsigned speed   | 0.1Hz resolution         |                          |                         |                       |  |  |  |  |
| Vor | <ul> <li>received value</li> </ul>   | = 0x01F0 = 49.6Hz        |                          |                         |                       |  |  |  |  |
| >   | Disting Output   |                          |                          |                         |                       |  |  |  |  |
| ~   | Digital Output + Relay – Active when parameter P140, P142 = 25 Network Control |                          |                          |                         |                       |  |  |  |  |
| ord | Bit 9 – Open Col   | lector                   |                          |                         |                       |  |  |  |  |
| Ň   | Bit TU - Relay   | d for futuro upo         |                          |                         |                       |  |  |  |  |
|     | Uners – reserve  |                          |                          |                         |                       |  |  |  |  |
| pr  | Analog Output [  | 0.01VDC] – Active when   | parameter P150 = 9 Ne    | etwork Control          |                       |  |  |  |  |
| Mol | <ul> <li>received value</li> </ul>   | = 0x024B = 5.87[VDC]     |                          |                         |                       |  |  |  |  |



#### NOTE

In order to Start/Stop the drive via network control, bit 5 of Word 0 must be set in this assembly. In order to control the speed via network communications, bit 6 of Word 0 must be set in this assembly.

#### Input Assembly 101 - Speed (Hz) & Digital and Analog Input

|     | Bit 0                                       | 1 = Faulted         |               |               |              |  |  |
|-----|---|---------------------|---------------|---------------|--------------|--|--|
|     | Bit 1                                       | Reserved            |               |               |              |  |  |
|     | Bit 2                                       | 1 = Running Forw    | /ard          |               |              |  |  |
|     | Bit 3                                       | 1 = Running Reve    | rse           |               |              |  |  |
|     | Bit 4                                       | 1 = Ready           |               |               |              |  |  |
|     | D:+ C                                       | 0 = Local Control   |               |               |              |  |  |
|     | BIT 5                                       | 1 = Control from I  | Network       |               |              |  |  |
|     | <b>D</b> 'I 0                               | 0 = Local reference |               |               |              |  |  |
| 0 p | BIT 6                                       | 1 = Reference fro   | m Network     |               |              |  |  |
| Vor | Bit 7                                       | 1 = At reference    |               |               |              |  |  |
| >   | Bit 8                                       | Actual set point so | ource:        |               |              |  |  |
|     | Bit 9                                       | 0 – keypad          | 9 – Preset #7 |               |              |  |  |
|     | Bit 10                                      | 1 – 0-10VDC         | 4 – Preset #2 | 7 – Preset #5 | 10 – MOP     |  |  |
|     | Bit 11                                      | 2 – 4-20mA          | 5 – Preset #3 | 8 – Preset #6 | 11 – Network |  |  |
|     | Bit 12                                      | 1 = PID Active (clo | osed loop)    |               |              |  |  |
|     | Bit 13                                      | 1 = Torque mode     | active        |               |              |  |  |
|     | Bit 14                                      | 1 = Current limit   |               |               |              |  |  |
|     | Bit 15                                      | 1 = DC Braking      |               |               |              |  |  |
| -   |   |                     |               |               |              |  |  |
| ord | Unsigned actual frequency 0.1Hz resolution. |                     |               |               |              |  |  |
| >   |   |                     |               |               |              |  |  |
| d 2 |   |                     |               |               |              |  |  |
| Vor | Digital input/Output stat                   | es ( See Note 1 tor | detalls)      |               |              |  |  |
| 33  |   |                     |               |               |              |  |  |
| p   | Analog Input 0-10V TB                       | [0.01VDC]           |               |               |              |  |  |
| MC  | <ul> <li>received value = 0x02</li> </ul>   | 24B = 5.87[VDC]     |               |               |              |  |  |
|     |   |                     |               |               |              |  |  |

To begin creating an alias tag, right click on the box next to any controller tag and select "New Tag".



# Lenze

Enter a name for the tag. In this example we use "Conveyor\_1\_RUN\_FWD". For the Type select "Alias". Next, browse to the tag address you want to alias. In this example browse to MY\_EIPSMV\_FROM\_EDS:01.Data(0).0



Finally, click "Create" to add the alias tag to the project.

| ridino.             | Conveyor_1_RUN_FWD           | Create |
|---------------------|------------------------------|--------|
| Description:        |                              | Cancel |
|                     |                              | Help   |
| Usage:              | <normal></normal>            | -      |
| Туре:               | Alias 👻 Connection.          | ]      |
| Alias For:          | EIPSMV_FROM_EDS:01.Data[0].0 | -      |
| Data Type:          | BOOL                         | ]      |
| Scope:              |                              | -      |
|                     |                              |        |
| External<br>Access: |                              |        |

| [-] - MY_EIPSMV_FROM_EDS:01       | { } | { } |         | _024B:ESVxxx_A |  |  |
|-----------------------------------|-----|-----|---------|----------------|--|--|
| [-] MY_EIPSMV_FROM_EDS:01.Data    | { } | { } | Decimal | INT [4]        |  |  |
| [+] MY_EIPSMV_FROM_EDS:01.Data[0] | 0   |     | Decimal | INT            |  |  |
| [+] MY_EIPSMV_FROM_EDS:01.Data[1] | 0   |     | Decimal | INT            |  |  |
| [+] MY_EIPSMV_FROM_EDS:01.Data[2] | 0   |     | Decimal | INT            |  |  |
| [+] MY_EIPSMV_FROM_EDS:01.Data[3] | 0   |     | Decimal | INT            |  |  |
| Conveyor_1_RUN_FWD                | 0   |     | Decimal | BOOL           |  |  |

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