

Altivar 312
Variable speed drives
for asynchronous motors

Communication variables manual

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It will describe the email program and what to expect in the upcoming weeks. Enjoy. The table shows recommended fuse ratings for UL and CSA requirements. The components are for use together in accordance with standard UL508 The table shows recommended fuse ratings for UL and CSA requirements. The components are for use together in accordance with standard UL508 O indicates that the concentration of hazardous substance in all of the homogeneous. X indicates that concentration of hazardous substance in at least one of the homogeneousO indicates that the concentration of hazardous substance in all of the homogeneous. X indicates that concentration of hazardous substance in at least one of the homogeneousPlease try again later.For more details, please read our Keep an eyeout for your first welcome email which will explain what to expect in the upcoming weeks. Enjoy. We're here to help! For more details, please read our We are excited that you have joined the group. You will receive your first welcome message soon. It will describe the email program and what to expect in the upcoming weeks. Enjoy. Discover everything Scribd has to offer, including books and audiobooks from major publishers. Start Free Trial Cancel anytime. Report this Document Download Now Save Save Communication Variables PDF For Later 100% 1 100% found this document useful 1 vote 274 views 2 pages Communication Variables PDF Uploaded by Josefa Description Communicationvariables.pdf Full description Save Save Communication Variables PDF For Later 100% 100% found this document useful, Mark this document as useful 0% 0% found this document not useful, Mark this document as not useful Embed Share Print Download Now Jump to Page You are on page 1 of 2 Search inside document Browse Books Site Directory Site Language English Change Language English Change Language. I thought that I will find something ready in the forum as both products are popular but that was not the case.

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I realised that there arent any examples in the forum using SE drives and also I did not find any examples using more than one slave. For that reason I made a fully tested working example using an S71200 with a CM1241, a S.E. Twido PLC and a S.E. ATV31 Drive. In the TIA portal project there is also an HMI configured which I utilised using the simulator. Before I explain my example I will

highlight a couple of things 1. Modbus was developed by Modicon and thus Modbus addressing fits Modicon controllers. Modicon controllers don't use Data Blocks, they have all their memory allocated in %M bits and %MW. Most of the times the Job can be done using words or in modbus terms 4000x registers. In our example this applies for the Twido PLC. If I wanted to read or write %MW100 from the PLC I then need to read register 40101 using Modbus. Most of the times though we need to communicate not with PLCs but with other devices as Drives, Power monitors, Instruments etc. For these items in their manuals the addressing is not given in %MW format or 4000x format but it might be given as number i.e. from the ATV31 communication variable manual I read that the address for the Last Fault is 7121. This is common practice for S.E. products. 2. Siemens uses a totally different memory structure from Modicon as it uses Datablocks. Therefore the controller addressing with the Modbus addressing are inconsistent. It takes an array of data from a data block and it makes the available to the master as Modbus addresses 4000x 4000n. In a modicon controller where the controller addressing and modbus addressing match, no code needs to be written in the SLAVE. 3. In Modbus the Master polls the Slaves and reads and writes data to them. A lot of slaves mean longer poll times. Therefore care needs to be taken when selecting the Timeout setting of the devices. In the example the S71200 reads the Status word, the actual output frequency and the last fault data from the Altivar 31.

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It also Initializes the drive, issues start, stop, reverse, fault reset commands and it also sets the reference. ATTENTION As safety is always No1 concern care needs to be taken to set the required state of the equipment in case the network fails. I did not include such a function in the example. Disclaimer this example is for demonstration purposes only and I claim no responsibility for its use. Just my two cents Thank you for learn together. A better world is possible. But i don't have documentary about regist of Altivar which mean 4000x 47122. Can you share it for me, thank you so much. Nikzitronik Dear all I have a project where I need to control 4 Schneider electric Altivar312 drives using an S71200 using Modbus. I thought that I will find something ready in the forum as both products are popular but that was not the case. I realised that there aren't any examples in the forum using SE drives and also I did not find any examples using more than one slave. For that reason I made a fully tested working example using an S71200 with a CM1241, a S.E. Twido PLC and a S.E. ATV31 Drive. In the TIA portal project there is also an HMI configured which I utilised using the simulator. Before I explain my example I will highlight a couple of things 1. Modbus was developed by Modicon and thus Modbus addressing fits Modicon controllers. Modicon controllers don't use Data Blocks, they have all their memory allocated in %M bits and %MW. Most of the times the Job can be done using words or in modbus terms 4000x registers. In our example this applies for the Twido PLC. If I wanted to read or write %MW100 from the PLC I then need to read register 40101 using Modbus. Most of the times though we need to communicate not with PLCs but with other devices as Drives, Power monitors, Instruments etc. For these items in their manuals the addressing is not given in %MW format or 4000x format but it might be given as number i.e.

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from the ATV31 communication variable manual I read that the address for the Last Fault is 7121. This is common practice for S.E. products. 2. Siemens uses a totally different memory structure from Modicon as it uses Datablocks. Therefore the controller addressing with the Modbus addressing are inconsistent. It takes an array of data from a data block and it makes the available to the master as Modbus addresses 4000x 4000n. In a modicon controller where the controller addressing and modbus addressing match, no code needs to be written in the SLAVE. 3. In Modbus the Master polls the Slaves and reads and writes data to them. A lot of slaves mean longer poll times. Therefore care needs to be taken when selecting the Timeout setting of the devices. In the example the S71200 reads the Status word, the actual output frequency and the last fault data from

the Altivar 31. It also Initializes the drive, issues start, stop, reverse, fault reset commands and it also sets the reference. ATTENTION As safety is always No1 concern care needs to be taken to set the required state of the equipment in case the network fails. I did not include such a function in the example. Disclaimer this example is for demonstration purposes only and I claim no responsibility for its use. Just my two cents It is very interesting your solution but cant to check because it couldnt be opened by TIA v15. Thanks beforehand. TIAportal v15. Please ask if you have any questions. Kind regards I for one really appreciate you taking the time and effort to post this It is very interesting your solution but cant to check because it couldnt be opened by TIA v15. Thanks beforehand. Heres a update to V13 SP1. In order to view this file, please download Adobe Reader from here. Or, if you want to download the PDF file to your computer, please click here.

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