RS Automation Drive Special Settings

Special Settings Required for RS Automation Drives

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EtherCAT Connection

The EtherCAT system has a very useful way of ensuring that the important drive setting parameters are downloaded to the drive. This "Startup" system This is especially useful if a drive is exchanged. The correct parameters for the axis are passed to the drive on every power on cycle. This means you do not have to pre-program a drive wityh its specific parameters beforehand, or via a USB connection.

The following parameters should be programmed in to the startup system

Description	Purpose	RS Automation Ft-no Parameter	CoE Number	Value
Velocity Feed forward Gain	To reduce the following error on the system to nearly zero It is expressed as a percentage 0-100 The default value is 0, which will give a progressively large following error proportional to the speed of the axis. Setting to 100 removes the following error completely See Microline withTwinCAT3 Setup Notes, pand the warning about the Following Error mode for the axis	3.02	2302	100
AC Line Loss	Needs to be changed from enabled to "Single Phase" (using RSWare). see TB0452 Ecoline using RSAutomation EtherCAT setup notes.	0.02	2002:04	02
Operation Mode	Should be set to Mode 8 - Cyclic Synchronous Position This was identified during the Microline setup see TB0452 Ecoline using RSAutomation EtherCAT setup notes. ℹ️ ...Not certain that this is necessary		6060	08

Process

Step	Process	Pic

1	Check the CoE number is not already in the startup If it exists already, and is the wrong value, it can be edited. If not it needs to be added - step 2	
2	1. Select the Drive 2. Select CoE Online Tab 3. Select the CoE Number 4. Select Add to Startup	
3	Click on Edit Entry	
4	Add in the new value anmd click OK	

| 5 | The parameter should appear in the Startup Tab | |