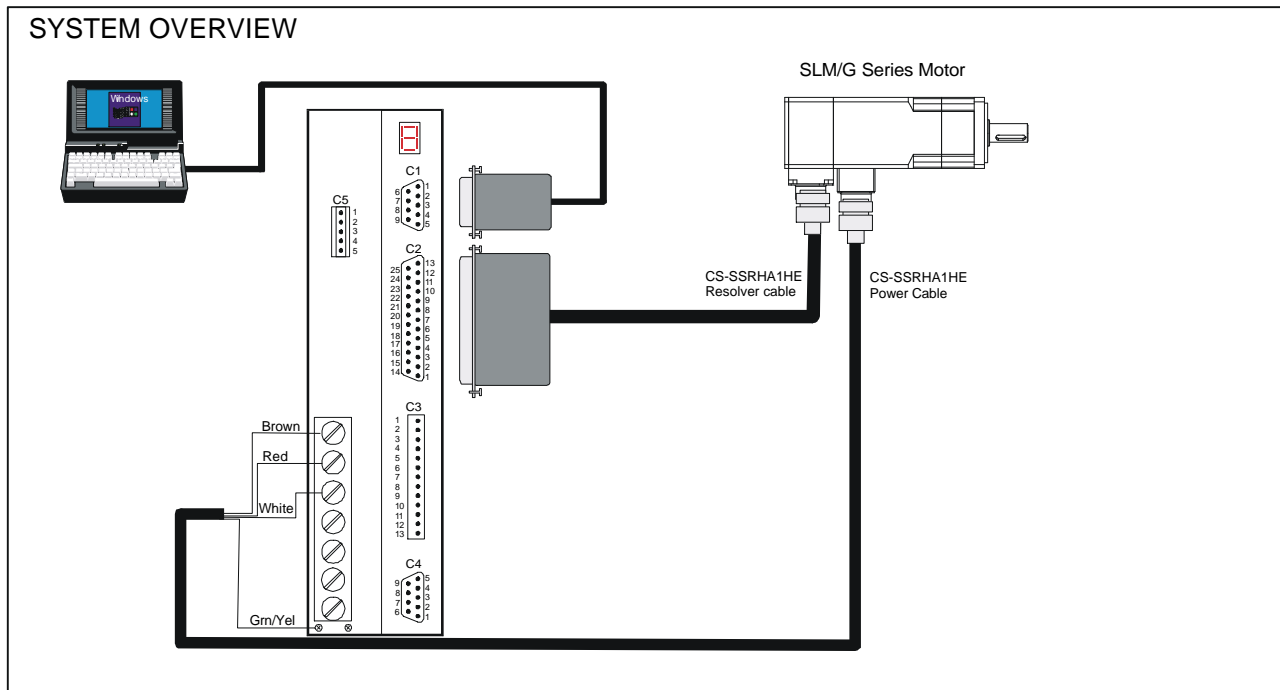


6.4 Kollmorgen SERVOSTAR Drive with SLM Series Motors (M Connector Option)



Dangerous voltages exist so use extreme caution when operating this equipment. Sufficient energy remains in the SERVOSTAR to cause motion even with the power removed. To verify that the equipment is safe, insure that the voltage across the DC+ and DC- terminals is at 0VDC. At startup, reduce the current to below the rated current, such that accelerating torque is limited, until proper control is verified.

SETTING UP THE SERVOSTAR DRIVE TO RUN EXLAR SLM SERIES MOTORS

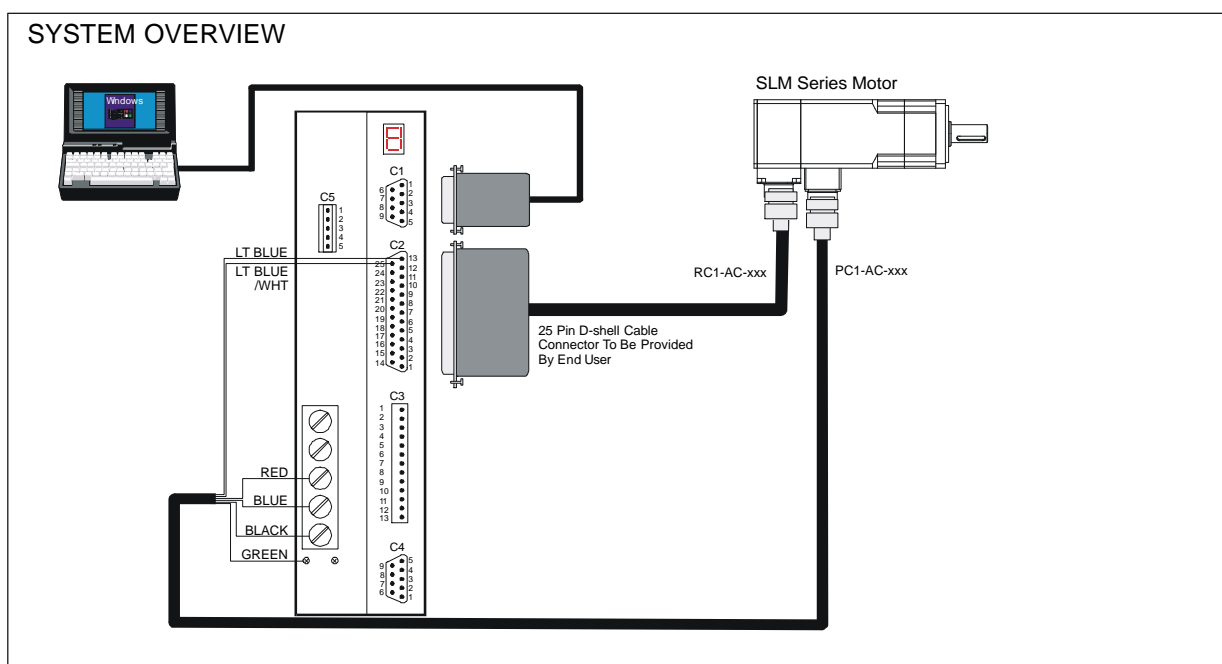
In order to program the drive to run the Exlar motors, the motor parameter file provided by Exlar must be loaded into the Servostar directory, which by default is named “c:\Program files\KMTG Motion Suite\user.m03”. Once the motor file is loaded, the following steps will enable the SERVOSTAR drive to run the Exlar motors.

1. Connect the serial cable from the PC to C1 of the SERVOSTAR drive.
2. With the motor power cable disconnected from the motor, apply power to the drive.
3. Double click on the SERVOSTAR icon to start the program.
4. Click OK to continue from the About MotionLink page.
5. Click on Com Setup and enter the communication parameters for the computer and click on OK.
6. Click on the Scan For Drives button to initiate communication with the drive.
7. Click on Start to begin the drive initialization process.
8. From the New Amplifier Startup Screen, click Start.
9. Select the bus voltage and drive configuration switch settings, then click Exit.
10. Under Motor Description, select the appropriate Exlar motor.
11. Click on the “To Drive” icon to download the motor data to the drive. Then click on Exit.
12. Continue on through the Startup process by running the “Opmode” “Tune”, and “Backup” steps.

Basic SLM Series Parameter Settings for Kollmorgen SERVOSTAR CD Drives (1)				
		SLM060	SLM090	SLM115
Maximum Speed	RPM	5000	3000	3000
Back EMF Compensation	%	50	50	50
Motor Inertia	Kg-m ²	See Inertia Table in section 4.2		
Motor Poles		8	8	8
AGain @ Peak Current	%	40	40	40
AGain @ Cont. Current	%	70	70	70
AGain@ Zero Current	%	100	100	100
Torque Advance P	Elec. Degrees	23	23	23
Torque Advance C	Elec. Degrees	10	10	10
Speed Advance V	Elec. Degrees	25	25	25
Speed Advance ½ V	Elec. Degrees	15	15	15

Note 1 Appropriate motor files may be obtained from Exlar and downloaded to SERVOSTAR CD drives. Use user.m03 file found on www.exlar.com

6.4a Kollmorgen SERVOSTAR Drive with SLM Series Motor (B/C/P Connector Option)



Motor Power Cable PC6-MC-XXX 060, 090 no brake lead PC7-MC-XXX size 115, no brake lead PCI-AC-XXX 060, 090 with brake lead PC7-AC-XXX size 115 with brake lead			
Exlar Connector	Wire Color	Function	SERVOSTAR Connector
A	Brown	Phase A	Ma
B	Black	Phase C	Mc
C	Blue	Phase B	Mb
D	Green	GND	⊕
F	Blue/White	Brake -	
G	Blue	Brake +	

Resolver Cable EC4-MC-XXX			
Exlar Connector	Wire Color	Function	C2 Connector
G	Red/Orange	Sine Hi (S3)	1
S	Gray/White	Sine Lo (S1)	2
Z	Bare	Shield	3
H	Orange/Red	Cos Hi (S2)	4
F	White/Gray	Cos Lo (S4)	5
Z	Bare	Shield	6
Z	Bare	Shield	14
R	Brown/White	Ref Hi Out (R2)	15
E	White/Brown	Ref Lo Out (R1)	16
N	Green	Therm Hi	13
U	Yellow	Therm Lo	25