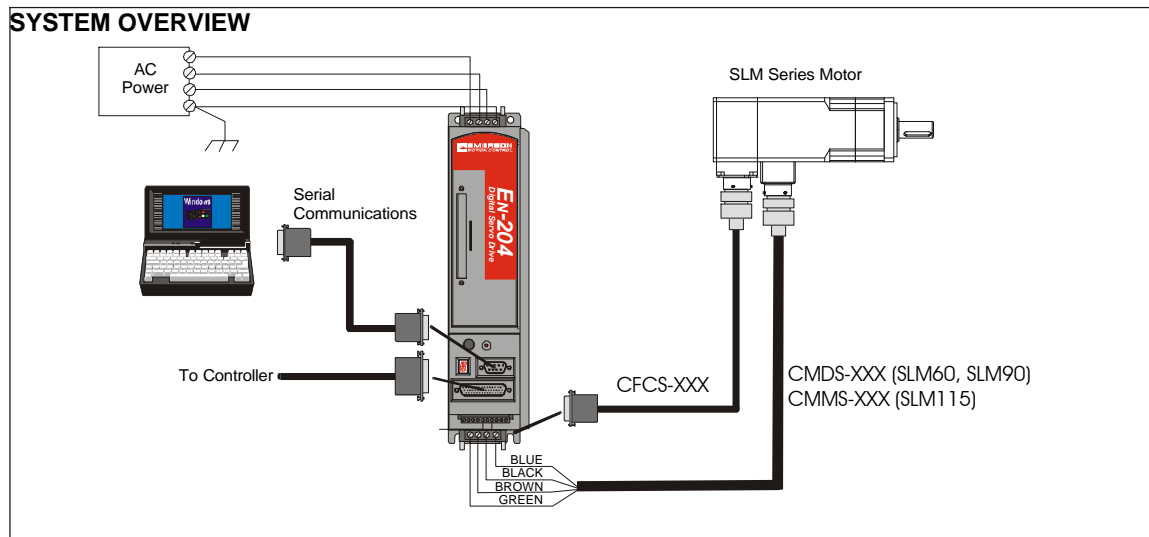


6.2 Emerson EN Series Drive with SLM Series Motor (C/P Connector Option)



Note: Dangerous voltages exist, so use extreme caution when operating this equipment. Sufficient energy remains in the EN Series drive to cause motion even with the power removed. Wait for the 7-segment display to dim to off when powering down the drive. At start-up, be sure to have the proper motor file selected and limit the maximum acceleration until proper operation is verified.

SETTING UP THE EMERSON EN SERIES DRIVE TO RUN THE SLM SERIES MOTOR

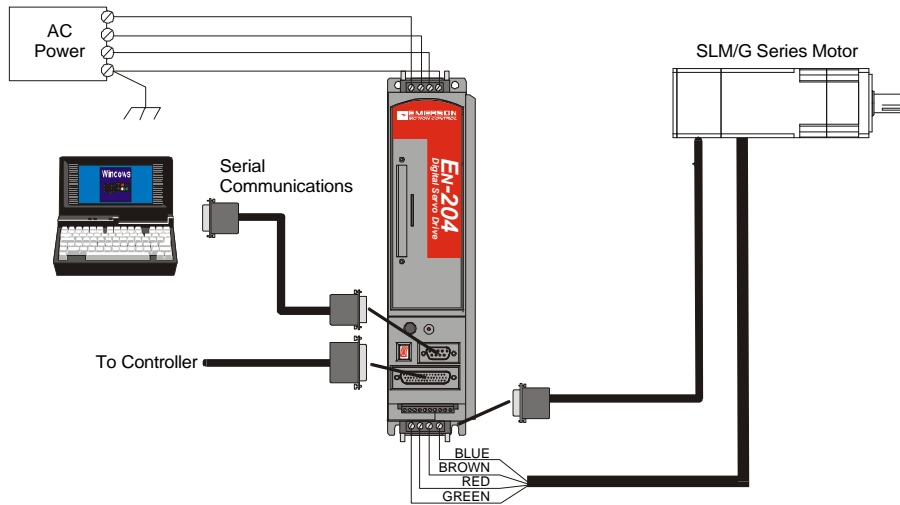
The quick touch setup cannot be used to select the Exlar motor. The motor file containing the Exlar motors is supplied by Exlar and must be saved as the motor.ddf file in the Power Tools main directory of the personal computer. When running PTOOLS, the motor can be selected from the motor list and downloaded to the EN Series drive by following these steps:

1. Click on the PowerTools Icon.
2. From the menu bar, select File-New.
3. Select Predefined Setup Selection appropriate for the application.
4. Enter the appropriate ID name, drive address, line voltage, and operating mode.
5. Enter the EN Series drive type.
6. At this point, if it asks you to enter a motor, then from the pull down menu, select the appropriate SLM Series motor.
7. Click on the Inputs, then Outputs tabs and configure the I/O as required.
8. Click on the Position, Velocity, and Torque tabs and configure the I/O as required.
9. Click on the Motor tab, then the drop-down Motor Type. The Exlar SLM Series motors should be included in the list. If they are not, the motor.ddf file from Exlar must be loaded into the Power Tools directory.
10. Download to the EN Series drive by clicking on Device – Download from the menu items.

| Basic SLM Series Parameter Settings for Exlar EN Series Amplifiers | | | | |
|--|----------------------|----------------------------------|--------|--------|
| | | SLM060 | SLM090 | SLM115 |
| Number of Poles | | 8 | 8 | 8 |
| Maximum Speed | RPM | 5000 | 4000 | 3000 |
| J_m | Lb-in-s ² | See Inertia Table in section 4.2 | | |
| Encoder Size | Lines | 2048 | 2048 | 2048 |
| Index Offset | Degrees | 330 | 330 | 330 |
| Hall Offset | Degrees | 330 | 330 | 330 |

6.2a Emerson EN Series Drive and SLM Series Motor (B Connector Option)

SYSTEM OVERVIEW



| Motor Cable (PC6-MC-XXX 060, 090 no brake lead) (PC7-MC-XXX size 115, no brake lead) (PC1-AC-XXX 060, 090 with brake lead) (PC7-AC-XXX size 115 with brake lead) | | | |
|---|------------|----------|------------------|
| Exlar Connector | Wire Color | Function | EN-XXX Connector |
| A | Brown | R Phase | R |
| B | Black | S Phase | S |
| C | Blue | T Phase | T |
| D | Green | GND | |
| F | Blue/White | Brake - | |
| G | Blue | Brake + | |

| Encoder Cable | | | |
|-----------------|----------------------|--------------------|--------------|
| Exlar Connector | Wire Color | Function of EN-XXX | J7 Connector |
| K | Red/Blue | Encoder Power | 7 |
| T | Blue/Red | Encoder COM | 17 |
| B | Blue | A+ | 1 |
| C | Orange | A- | 10 |
| N | Green | B+ | 2 |
| P | Brown | B- | 11 |
| M | Black | Z+ | 3 |
| U | Yellow | Z- | 12 |
| E | White/Brown | U | 4 |
| F | White/Gray | V | 5 |
| G | Red/Orange | W | 6 |
| R | Brown/White | U- | 13 |
| S | Gray/White | V- | 14 |
| H | Orange/Red | W- | 15 |
| A | Red/Green | Therm Sw+ | 9 |
| D | Jumper to T in Motor | Therm Sw- | 17 |