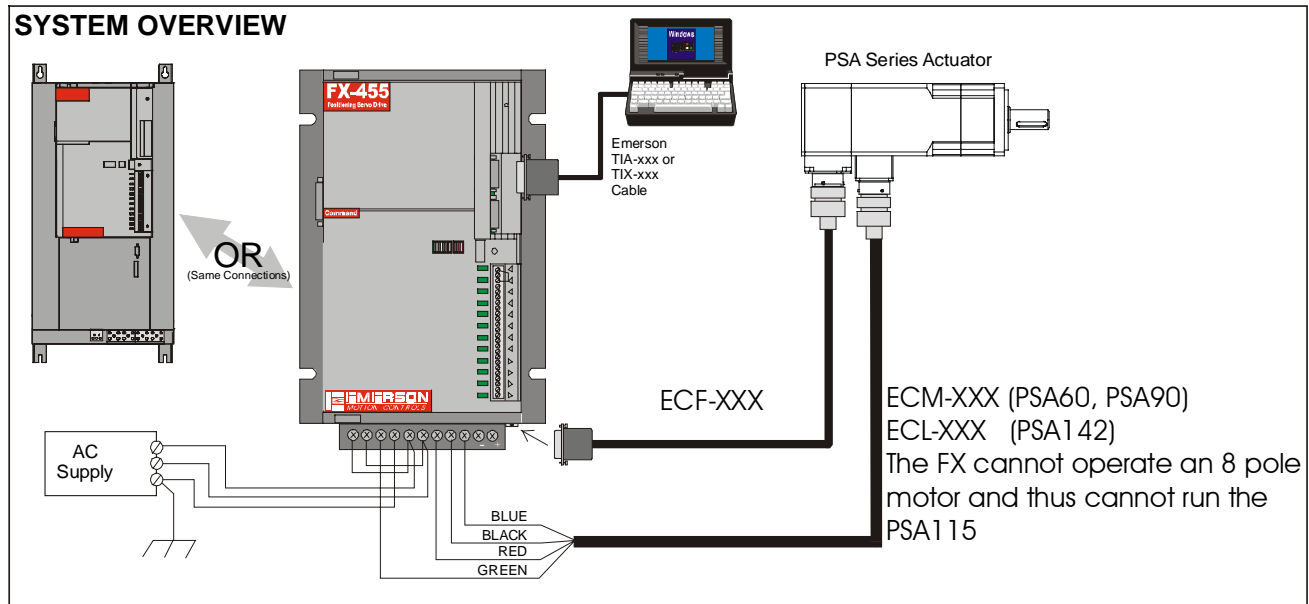


### 6.3 Emerson FX Drive with Exlar PSA Actuator (M Option Connectors)



**Note:** Dangerous voltages exist, so use extreme caution when operating this equipment. Sufficient energy remains in the FX Series drive to cause motion even with the power removed. At start-up, it is recommended to reduce current limits in order to lower maximum acceleration until the cables and control interface is verified.

#### SETTING UP THE EMERSON FX DRIVE TO RUN THE PSA SERIES ACTUATOR

The FX drive should be set up using the PCX software supplied by Emerson Motion Control. The steps for changing the maximum current are as follows:

1. Run the PCX software.
2. Select On-line operations for the appropriate COM port of the personal computer.
3. Select drive setup.
4. Select drive configuration.
5. Select limits.
6. Set maximum torque output to the value shown in the table below for the appropriate drive/actuator combination.

Maximum Current Limit Settings For FX Amplifiers With PSA Series Actuators									
Drive Model	Drive Cont. Current Rating	PSA60 Short	PSA60 Medium	PSA60 Long	PSA90 Short	PSA90 Medium	PSA90 Long	PSA142 Short	PSA142 Medium
FX-316	4	58	100	135	81	145	200	200	
FX-340	6.5	36	61	83	50	89	121	123	200
FX-455	8					72	100	100	200
FX-490	14								115

(1) Setting the maximum torque in the drive configuration does not protect the actuators from exceeding the continuous ratings. The "Therm Sw" wires to the FX drive will help prevent overheating of the actuator, but do not guarantee that the drive will not damage the motor. Proper care should be taken to insure that the operation of the application will not potentially damage the motor.

(2) FX drives do not operate with 8 pole motors such as PSA115.