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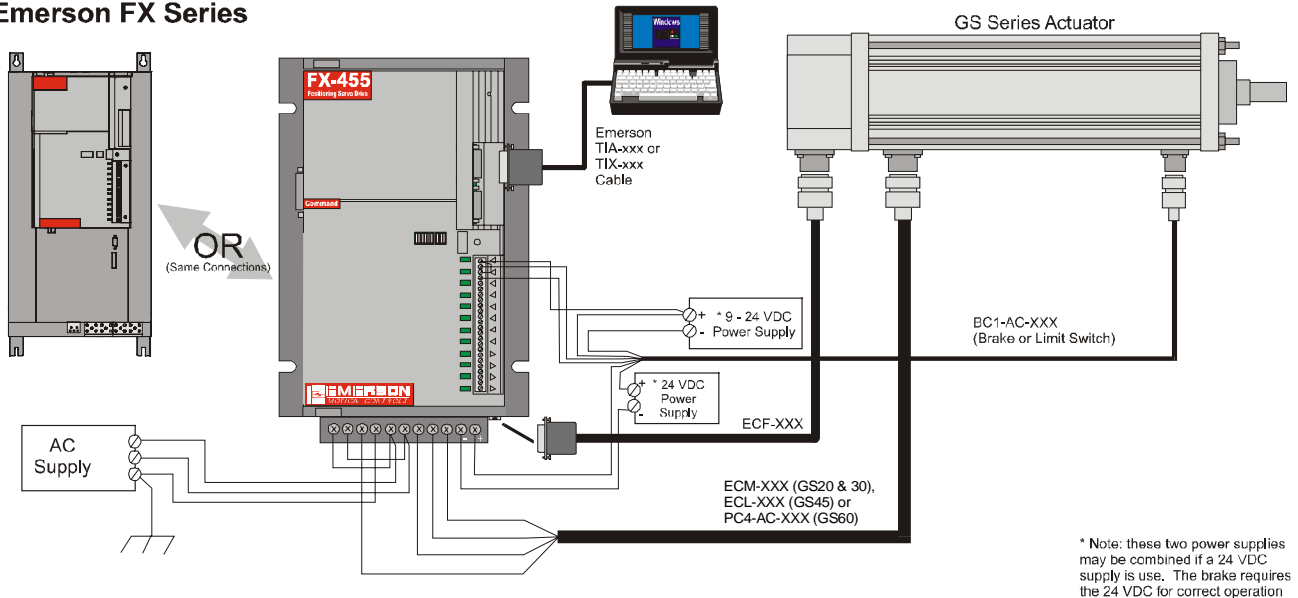
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7.3 Emerson FX Drive with Exlar GS Actuator (M Option Connectors)

Emerson FX Series



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 GS 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 Torque Settings for Emerson FX Drives (Notes 1, 2)					
Drive Model	Drive Cont. Current Rating	GS20 MV	GS30 MV	GS45 MV	GS60 HV
FX-208	3	180	190		
FX-316	4	135	143		
FX-340	6.5	83	88	200	
FX-455	8			200	
FX-490	14			114	
FX-6210	13.6				200
FX-6310	15				200

(1) Setting the maximum torque in the drive configuration does not protect the actuators from exceeding the continuous ratings. Proper connection of the "Therm Sw" wires to the FX drive will help prevent overheating of the actuator. (2) FX drives do not operate with 8 pole motors such as GS40.

CABLES FOR EMERSON FX DRIVE AND GS SERIES ACTUATOR (M CONNECTOR OPTION)

Refer to the diagram at the beginning of Section 7.2. The required cables are identified in the table below. An Exlar cable must be used for the limit switch option on the GS actuators; Emerson Motion Control does not offer a version of this cable. An Exlar motor power cable is required for the GS60.

Emerson FX Series Cable Part Numbers (-XXX denotes cable length)	
GS20 / GS30	
Feedback	ECF-XXX
Motor Power	ECM-XXX
Brake/Limit Switch	BC1-AC-XXX (Exlar Cable)
GS45	
Feedback	ECF-XXX
Motor Power	ECL-XXX
Brake/Limit Switch	BC1-AC-XXX (Exlar Cable)
GS60	
Feedback	ECF-XXX
Motor Power	PC4-AC-XXX (Exlar Cable)
Brake/Limit Switch	BC1-AC-XXX (Exlar Cable)

