Elwood High Performance Motors

SX-Series Motors to Emerson/Control Techniques Drive Wiring:

Incremental Encoder with Complemented Commutation Signals

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CAUTION (READ FIRST): To prevent accidental damage to the motor, set *all* drive parameters for continuous and peak current(s) below the motor's continuous current rating and disconnect the motor's output shaft from mechanical linkages *prior to* enabling power to the motor. Then, after proper servo control is established between the drive and motor, set drive current parameters to levels appropriate for the motor, drive, and application.

Motor Power	
Drive Terminal	Motor Lead Color
P.E.	Green
U	Black
V	Red
W	White

Motor Feedback		
Feedback Connector Contact Number	Signal Name	Motor Cable Conductor Color
1	A	WHITE W/ GREEN
2	A'	GREEN W/ WHITE
3	B	WHITE W/ BLUE
4	B'	BLUE W/ WHITE
5	Z	WHITE W/ ORANGE
6	Z'	ORANGE W/ WHITE
7	U	WHITE W/ GRAY
8	U'	GRAY W/ WHITE
9	V	WHITE W/ BROWN
10	V'	BROWN W/ WHITE
11	W	RED W/ ORANGE
12	W'	ORANGE W/ RED
13	+ VOLTAGE	RED W/ BLUE
14	0 VDC (Common)	Blue w/ Red & Blue Thermistor
15	Th	Blue Thermistor
Connector Case	SHIELD	CABLE DRAIN WIRE

* Be sure to connect the secondary ground at the rear cover of the motor to the machine's single-point earth ground (P.E.).

** Encoder Phase Angle (for PowerTools Pro): 150deg (nominal)