

# Wiring Kinetix or Ultra3000 Servo Drives to Elwood High Performance Motors SX-Series Incremental Encoder-based Motors

## **About This Publication**

This publication provides tables for wiring the flying leads from an Elwood High Performance Motors SX-Series motor with an incremental encoder to a Kinetix\* or Ultra™ 3000 drive.

Contact Elwood (<a href="http://www.elwood.com/sx">http://www.elwood.com/sx</a>) for motor installation instructions.

IMPORTANT	Be sure to correctly connect shields and ground the motor frame.
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# **Applicable Drives**

Ultra3000	Kinetix 350	Kinetix 6000	Kinetix 6500
Kinetix 300	Kinetix 2000	Kinetix 6200	

# **Wiring the Power Connections**

Kinetix Drive	Elwood SX-Series Po	Elwood SX-Series Power		
Terminal	Wire Color	Signal	Terminal	
U	Black	Phase A	U	
V	Red	Phase C	٧	
W	White	Phase B	W	
Ground	Green	Ground	Ground	
MBRK-	Orange	Brake - Com	MBRK-	
MBRK+	Brown	Brake +24V DC	MBRK+	
Wire to MF-16 (TS+) (1) (2)	Blue	Over Temp	Wire to CN2-11 (TS+) (3)	
Wire to MF-17 (TS-) (1) (2)	Blue	Over Temp	Wire to CN2-6 (TS-) (3)	

<sup>(1)</sup> Terminate with a low-profile connector kit (catalog number 2090-K6CK-D15MF) on Kinetix 6000, Kinetic 6200, and Kinetix 6500 drives.



<sup>(2)</sup> Terminate with a low-profile connector kit (catalog number 2090-K2CK-D15M) on Kinetix 300/350 and Kinetix 2000 drives.

<sup>(3)</sup> Terminate with a low-profile connector kit (catalog number 2090-UXBB-DM15) on Ultra3000 drives.

# **Wiring the Incremental Encoder Connections**

Kinetix Drives		Elwood SX-Series Feedback			Ultra3000 Drives	
Signal	MF-Pin #	Wire Color	Signal	Notes	Signal	CN2-Pin#
A+	1	White/Green	A+	_	A+	1
A-	2	Green/White	A-		A-	2
B+	3	White/Blue	В+		В+	3
B-	4	Blue/White	В-		B-	4
Index+	5	Wht/Orange	Z+		Index+	5
ECOM	6	Blue/Red	Com		ECOM	6
<b>S</b> 3	8	Red/Orange	W		S3	8
Index-	10	Orange/White	Z-		Index-	10
<b>S1</b>	12	White/Gray	U		S1	12
S2	13	White/Brown	٧		S2	13
EPWR_5V	14	Red/Blue	+V DC		EPWR_5V	14
Overtemp (1) (2)	16	Blue	Over Temp	From motor power cable	TS+ <sup>(3)</sup>	11
Overtemp (1) (2)	17	Blue	Over Temp		TS- <sup>(3)</sup>	6
_	Connector Shield	Drain Wire/Shield	_	_	_	ConnectorShield

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