



Wiring Kinetix 6000 or Ultra3000 Servo Drives to Gettys SX Incremental Encoder Based Motors

About This Publication

This publication provides tables for wiring the flying leads from a Gettys SX motor with an incremental encoder to a Kinetix 6000 or Ultra3000 drive.

Contact Gettys (<http://www.elwood.com/gettys>) for motor installation instructions

IMPORTANT

Be sure to correctly connect shields, and ground the motor frame.

Wiring the Power Connections

Kinetix 6000 Drive	Gettys Power		Ultra3000 Drive
Terminal	Wire Color	Signal	Terminal
U	Black	Phase A	U
V	Red	Phase C	V
W	White	Phase B	W
Ground	Green	Ground	Ground
MBRK-	Orange	Brake - Com	MBRK-
MBRK+	Brown	Brake+24Vdc	MBRK+
Wire to MF-16 (TS+) ⁽¹⁾	Blue	Over Temp	Wire to CN2-11 (TS+)
Wire to MF-17 (TS+) ⁽¹⁾	Blue	Over Temp	Wire to CN2-6 (TS-)

⁽¹⁾ Terminate with a Motor Feedback Connector (catalog number 2090-K6CK-D15MF).

Wiring the Incremental Encoder Connections

Kinetix 6000 Drive		Gettys Encoder			Ultra3000 Drive	
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	B+		B+	3
B-	4	Blue/White	B-		B-	4
Index+	5	Wht/Orange	Z+		Index+	5
ECOM	6	Blue/Red	Com		ECOM	6
S3	8	Red/Orange	W		S3	8
Index-	10	Orange/White	Z-		Index-	10
S1	12	White/Gray	U		S1	12
S2	13	White/Brown	V		S2	13
EPWR_5V	14	Red/Blue	+Vdc		EPWR_5V	14
Overtemp ⁽¹⁾	16	Blue	Over Temp	From Motor Power cable	TS+ ⁽¹⁾	11
Overtemp ⁽¹⁾	17	Blue	Over Temp		TS- ⁽¹⁾	6
—	Connector Shield	Drain Wire/Shield	—	—	—	Connector Shield

⁽¹⁾ The Kinetix 6000 and Ultra3000 drives require the use of a Motor Feedback Connector (catalog number 2090-K6CK-D15MF) with thermal-switch filter terminals to provide Over Temp signal termination. Refer to Wiring the Power Connections on page 1.

Allen-Bradley, Kinetix, Rockwell Automation, and Ultra3000 are trademarks of Rockwell Automation, Inc.

Trademarks not belonging to Rockwell Automation are the property of their respective companies.

www.rockwellautomation.com

Power, Control and Information Solutions Headquarters

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444
 Europe/Middle East/Africa: Rockwell Automation, Vorstlaan/Boulevard du Souverain 36, 1170 Brussels, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640
 Asia Pacific: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846

Publication 2090-IN015A-EN-P - January 2007