Objective

620L to 690+ wiring information

Equipment

690+ AC Drive, Systems Board (factory installed), 6053/6055-L-00 (Link Techbox), computer with DSD-DEV (> v.1.14) installed, assorted hand tools, 24Vdc supply rated for one amp.

>   Note: This document is intended for users with previous experience of developing Link drive systems.

Procedure

1. Remove all power to the 620 drive.

2. Uninstall the 620 drive.

3. Install the 690+ drive that includes a systems board with a Link Techbox attached.

    Note: Connect only the 3-phase input AC voltage wiring. Also, remember to add a fiber optic jumper to Link Techbox for completion of the Link network

4. Apply the AC power to the 690+ drive.

    Note: The user _must_ have Drive Systems Designer Development (DSD-DEV) software to configure the 690+ drive.

5. Create a 690+ file using DSD-DEV to download into the Link Techbox.

    **Warning: Adjustments to the drive software configuration _are_ needed. The DSD template needs to be verified for proper functionality.

    ** Hint**   The digital inputs on the 620L drive were connected to the Preset block. However, only Dig In 7 and Dig In 8 on the 690+ are connected to the Sequencing Logic block. All other I/O points _are not_ configured by default.

6. After verifying the downloaded Link configuration, remove the AC power from the 690+ drive.

7. Install all power connections.

    Note: Remember the 24Vdc supply is for the Systems board only.

8. Using the chart below convert the wiring changes from the 620L terminals to the 690+ terminals.

    Note: The Thermistor connection has been replaced with the External Trip.

    Note: Verify all control and power connections.

9. Re-apply the AC power.

10. Use 690+ quick start for basic motor operation.

Related Documents:

690+ (Frame B – F) Install manual HA465492   690+ (Frame G, H, J) Install manual HA465084

690+ Software manual HA465038   690+ Quick start HA470631

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If you have questions, please call the Product Support Group at (704) 588-3246.

Wiring Information

Terminal Description	620L Terminal #	690+ Terminal #	Terminal Description	620L Terminal #	690+ Terminal #
Feedback Channel A	A1	Systems Board C 1	Reference Channel A	D1	Systems Board B2
Feedback Channel A comp.	A2	Systems Board C 2	Reference Channel A comp.	D2	Systems Board B3
Feedback Channel B	A3	Systems Board C 3	Reference Channel B	D3	Systems Board B4
Feedback Channel B comp.	A4	Systems Board C 4	Reference Channel B comp.	D4	Systems Board B5
Feedback Channel Z	A5	Systems Board C 5	Reference Channel Z	D5	Systems Board B6
Feedback Channel Z comp.	A6	Systems Board C 6	Reference Channel Z comp.	D6	Systems Board B7
Encoder Supply	A7	Systems Board B8	Encoder Supply	D7	Systems Board B8
Encoder 0v	A8	Systems Board B9	Encoder 0v	D8	Systems Board B9
Ground	A9	Systems Board A1	Ground	D9	Systems Board A1
Thermistor 0v	B1	Motor Therm	0v	E1	11
Thermistor Input	B2	Motor Therm	Digital In 1	E2	12 **
Health Output	B3	21, 22	Digital In 2	E3	13 **
Coast Stop	B4	19	Digital In 3	E4	14 **
Fast Stop	B5	18	Digital In 4	E5	15 **
Jog	B6	16	Digital Out 1	E6	23, 24
Start	B7	12	Digital Out 2	E7	21, 22
Enable	B8	17	Digital Out 3	E8	25, 26
24V Supply	B9	20	+24V	E9	20
Ground	C1	1	0V	F1	1
Signal 0v	C2	1	Analog In 3	F2	4 **
Ramp Input	C3	2	Analog In 4	F3	5 **
Direct Input	C4	3 **	Analog In 5	F4	--
Analog Out 1	C5	6	Analog Out 2	F5	7
+10V Supply	C6	9	-10 V Supply	F6	9

** Configurable Input

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