Installation Instructions

Original Instructions

Kinetix 5700 DC-bus Link Kits

Catalog Numbers 2198-BARCON-55DC200, 2198-BARCON-85DC200, 2198-BARCON-100DC200, 2198-BARCON-165DC200, 2198-BARCON-220DC200, 2198-BARCON-275DC200, 2198-BARCON-440DC200, 2198-KITCON-ENDCAP200

The Kinetix® 5700 DC-bus link kits are used to extend DC-bus power from drive-to-drive in DC-bus multi-axis configurations. DC-bus links are rated for 208 A, maximum bus-bar current.

Summary of Changes

Topic	Page
• Added 2198-D*xxx*-ERS4 and 2198-S*xxx*-ERS4 servo drive catalog numbers. However, when the Kinetix 5700 inverter catalog number ends in -ERS*x*, for example 2198-D057-ERS*x*, the variable (x) indicates that the inverter catalog number (by using this example) can be 2198-D057-ERS3 or 2198-D057-ERS4. • Updated the DC-bus link maximum bus-bar current.	Throughout
Added DC-bus link kit catalog numbers to the table in support of the Kinetix 5700 regenerative bus supply.	1
Added the iTRAK® power supply catalog number (2198-W25K-ER) to the table.	
Corrected the DC-bus end cap catalog number.	

DC-bus Link Kit Applications

DC-bus Link Kit Cat. No.	Kinetix 5700 Drive Module Type	Kinetix 5700 Drive Module Cat. No.	Description
2198-BARCON-55DC200	Dual-axis inverter	• 2198-D006-ERS*x* • 2198-D020-ERS*x* • 2198-D012-ERS*x* • 2198-D032-ERS*x*	DC-bus link, 55 mm, 208 A
2198-BARCON-85DC200 (1)	Dual-axis inverter	2198-D057-ERS*x*	DC-bus link, 85 mm, 208 A
	Single-axis inverter	• 2198-S086-ERS*x* • 2198-S130-ERS*x*	
2198-BARCON-100DC200	Single-axis inverter	2198-S160-ERS*x*	DC-bus link, 100 mm, 208 A
	iTRAK power supply	2198-W25K-ER	
2198-BARCON-165DC200	Regenerative Bus Supply	2198-RP088	DC-bus link, 165 mm, 208 A
2198-BARCON-275DC200		2198-RP200	DC-bus link, 275 mm, 208 A
2198-BARCON-440DC200		• 2198-RP263 • 2198-RP312	DC-bus link, 440 mm, 208 A
2198-BARCON-220DC200	Single-axis inverter	• 2198-S263-ERS*x* • 2198-S312-ERS*x*	DC-bus link, 220 mm, 208 A
2198-KITCON-ENDCAP200	DC-bus supply	• 2198-P031 • 2198-RP088 • 2198-P070 • 2198-RP200 • 2198-P141 • 2198-RP263 • 2198-P208 • 2198-RP312	DC-bus end caps, 208 A

(1) When two or three 2198-P208 DC-bus supplies are connected in parallel, one 85 mm DC-bus link is required for each additional power supply.

See the Kinetix 5700 Servo Drives User Manual, publication 2198-UM002, for detailed information on wiring, applying power, troubleshooting, and integration with Logix 5000™ controllers.

Install the DC-bus Links

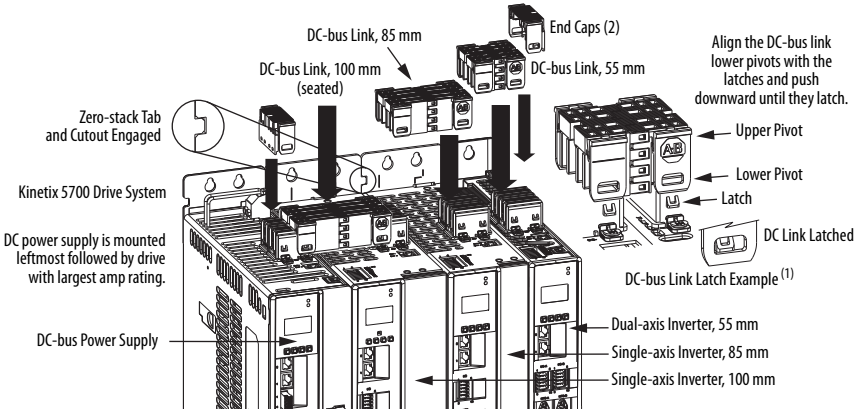
ATTENTION: To avoid hazard of electrical shock, perform all mounting and wiring of the Kinetix 5700 drives and DC-bus link kits before applying power. Once power is applied, connector terminals can have voltage present even when not in use.

IMPORTANT When the shared-bus connection system is used, the zero-stack tab and cutout must be engaged between adjacent drive modules.

The DC-bus connection system is comprised of two components:

- DC-bus links that are inserted between drive modules to extend the DC bus from drive to drive
- DC-bus end caps that are inserted into the first and last drive modules to cover the exposed DC-bus connector on both ends of the bus

This example configuration illustrates the shared DC-bus connection system and consists of one 2198-P208 DC-bus power supply, one 2198-S160-ERS*x* single-axis inverter, one 2198-S086-ERS*x* single-axis inverter, and one 2198-D006-ERS*x* dual-axis inverter.



(1) DC-bus links latch on both sides when inserted into the DC-bus connectors. To remove the DC-bus link, verify that there is no bus voltage present, depress both sets of upper pivots to unlatch the lower pivots, and hold the DC-bus link firmly while pulling upward.

Rockwell Automation maintains current product environmental information on its website at http://www.rockwellautomation.com/rockwellautomation/about-us/sustainability-ethics/product-environmental-compliance.page.

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