

Kinetix Servo Drives Specifications

Bulletin 2071, 2093, 2094, 2097, 2099, 2198

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This document provides catalog numbers and product specifications, including power, performance, environmental, certifications, dimension drawings, and accessories for Allen-Bradley[®] servo drives.

Use this publication with the Kinetix[®] Motion Control Selection Guide, publication <u>KNX-SG001</u>, to help make decisions selecting the motion control products that are best suited for your system requirements.





Summary of Changes

This manual contains new and updated information as indicated in the following table.

| Topic | Page |
|--|---|
| Added the 2198-Dxxx-ERS4 and 2198-Sxxx-ERS4 catalog numbers. When the Kinetix 5700 inverter catalog number ends in -ERSx, for example 2198-D057-ERSx, the variable (x) indicates that the inverter (using this example) can be 2198-D057-ERS3 or 2198-D057-ERS4. | Throughout Kinetix 5700 Servo Drives |
| Corrected the DC-bus power supply catalog number in the table. Corrected the maximum amp rating in footnote 3. | 9 |
| Corrected the maximum feedback cable length for Heidenhain EnDat encoders. | 14 |
| Added the Kinetix 5700 Safe Monitor Functions Safety Reference Manual, publication 2198-RM001, to the servo drives certifications table. | 21 |
| Added 2198-ABQE encoder output module general specifications table. | 27 |
| Updated the link to EU Declaration of Conformity certificates for each drive family. | 21, 47, 74, 93, 104, 113, 123, 141 |
| Corrected the Kinetix 5700 AC line filter voltage rating specifications. | 30 |
| Corrected the 24V input power maximum current rating in the IMPORTANT statement. | 32 |
| Corrected the Kinetix 5500 AC line filter voltage rating specifications. | 51 |
| Added the 65,000 kA circuit-breaker specification to the Kinetix 300/350 Circuit Breaker/Fuse Specifications. | 98 |
| Moved the Ultra3000 Digital Servo Drive Specifications to the Ultra3000 Drive Systems Design Guide, publication <u>GMC-RM008</u> . | - |

Kinetix 5700 Servo Drives



The Kinetix[®] 5700 drive family helps expand the value of integrated motion on EtherNet/IP[™] to large, custom machine-builder applications. Drive modules connect and operate by using ControlLogix[®] controllers, GuardLogix[®] controllers, CompactLogix[™] controllers, or Compact GuardLogix controllers.

With the Logix Designer application as a single control engine, and one design environment – Studio 5000[°] – machine builders now have more flexibility to scale, design, and control to help meet their needs. Kinetix 5700 servo drives can help reduce commissioning time and improve machine performance. They offer the simplicity, power, and space savings you need to help get your machine up and running faster.

Kinetix 5700 servo drives are designed for machines with high axiscounts and high-power requirements. Single and dual-axis inverters are available with integrated (drive-based and controller-based) safety functions and hardwired (drive-based) safety functions.

The iTRAK[®] power supply integrates the iTRAK system with the Kinetix 5700 drive family.

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Shared-bus 24V Input

Wiring Connector

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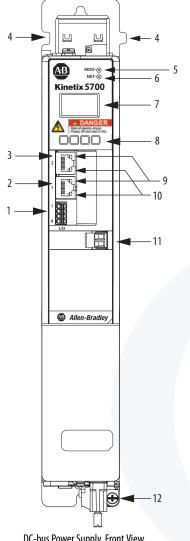
24V-24V+

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DC-bus Power Supply, Top View (2198-P031 module is shown)

Kinetix 5700 Drive Features and Indicators

DC-bus Power Supply Features and Indicators



DC-bus Power Supply, Front View (2198-P031 module is shown)

| ltem | Description |
|------|---------------------------------|
| 1 | Digital inputs (IOD) connector |
| 2 | Ethernet (PORT1) RJ45 connector |
| 3 | Ethernet (PORT2) RJ45 connector |
| 4 | Zero-stack mounting tab/cutout |
| 5 | Module status indicator |
| 6 | Network status indicator |

| ltem | Description |
|------|---------------------------------|
| 7 | LCD display |
| 8 | Navigation pushbuttons |
| 9 | Link speed status indicators |
| 10 | Link/Activity status indicators |
| 11 | Contactor enable (EN) connector |
| 12 | Ground terminal |

| ltem | Description |
|------|--|
| 13 | Shunt resistor (RC) connector |
| 14 | DC bus (DC) connector |
| 15 | 24V control input power (CP) connector |
| 16 | AC Input power (IPD) connector |
| 17 | Cooling fan |

DC-bus Power Supply, Bottom View (2198-P031 module is shown)

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