

PRODUCT PROFILE

KINETIX 7000 HIGH POWER SERVO DRIVE

Power. Your application needs a lot of it. But you want a servo drive that's both precise and easy to use. In addition, safety and improved productivity are crucial concerns. Look no further. Rockwell Automation has developed the Allen-Bradley Kinetix 7000 High Power Servo Drive specifically for applications like yours.

As part of the Kinetix® Integrated Motion solution, the Kinetix 7000 offers a high degree of commonality with other Kinetix drives, including the well-established Kinetix 6000 multi-axis servo drive. It also provides time savings, flexibility and ease of use – along with performance which is both impressive and cost-effective.

A key to the many benefits and convenient features of the Kinetix 7000 is the use of Allen-Bradley Logix platforms to provide true integration of motion, sequential and process control. Other types of automation systems require multiple controllers and programming packages, but since Logix is fully integrated, these functions are performed by a single control and software package. Motion control functions are embedded in RSLogix™ 5000 programming and in the Logix controller. As a result of using a single, integrated package for sequential, motion and process control, you're reducing the time and money involved in machine building.

With Kinetix, you can take advantage of a single architecture to meet the requirements of almost any motion control application and any power range - including high power requirements met with the new Kinetix 7000. Typical applications for the Kinetix 7000 can be found in Paper, Metals, Converting, Packaging, Printing and other industries.

THE POWER YOU NEED.
THE SIMPLICITY YOU WANT.



If you're looking to extend the benefits of Kinetix® Integrated Motion to high power applications, the Kinetix 7000 servo drive is the ideal solution. It delivers unprecedented ease of use and benefits of the Rockwell Automation Integrated Architecture to high power motion applications.

KINETIX 7000 FEATURES

- **Integrated Motion** – Get all the benefits of Kinetix Integrated Motion in a high power servo drive. Save time and money throughout the machine lifecycle from design and installation through operation and maintenance.
- **Quality** – Outstanding performance is based on established, successful product designs. The Kinetix 7000 is built on two proven foundations: PowerFlex® power structure and Kinetix control structure.
- **Power range and scalability** – The Kinetix solution has a servo drive to meet the needs of almost any machine, with complete power coverage up to 150 kW with the Kinetix 7000. Take advantage of a single solution to meet your needs.
- **Common User Experience** – Same status codes, I/O, feedback cables and safety connections as the Kinetix 6000, providing commonality throughout the drive family - up to 150 kW. Learn once and re-use product knowledge.
- **Safety** – Learn more about GuardMotion™. It means more productivity for your machine as well as safeguarding employees. See back for additional information.
- **Motor flexibility** – One drive solution for permanent magnet (synchronous) and induction (asynchronous) motors..

SPECIFICATIONS

2099-	BM06-S	BM07-S	BM08-S	BM09-S	BM10-S	BM11-S
VAC Input @ 47-63 Hz	380 - 480 V ac +/- 10%					
VDC Input	450 - 750V dc					
Main AC Input (rms)	36.7 A	47.7 A	59.6 A	90.1 A	117 A	169 A
Input DC current	42.9 A	55.7 A	69.7 A	105 A	137 A	204 A
Logic Power Input (auxiliary)	18-30 V dc					
Safety Function Support (built in)	EN-954-1 Category 3, IEC-61508 SIL3					
Cont. Power Output (KW)*	22	30	37	56	75	112
Cont. Power Output (HP)	30	40	50	75	100	150
Continuous Output Current (0-pk)	56	73	92	135	176	254
Continuous Output Current (rms)	40	52	65	96	125	180
Peak Current (rms) 60s	51	60	78	115	138	234
Peak Current (0-peak) 60s	72	84.8	110	162.6	195	331
Peak Current (rms) 3s	68	80	104	154	163	312
Peak Current (0-Peak) 3s	96	113	147	217.7	230.5	441
Frame Size	3	3	3	5	5	6
Drive Height (mm)	517.5	517.5	517.5	644.5	690.3	977.1
Drive Depth (mm)	224	224	224	287	287	283
Drive Width (mm)	254	254	254	332	332	429
Motor Support	Synchronous Permanent Magnet and Asynchronous Induction Motors					

*The initial release of the product line handles applications with power requirements of 22 -112 kW (30-150 HP). A future release of the Kinetix 7000 will expand the power range to 150 kW (200 HP).

KINETIX 7000 WITH GUARDMOTION

Safety on the manufacturing floor is of vital importance. So is machine productivity. Bringing the two together used to be a challenge. But with Kinetix Integrated Motion safety systems, machine builders and machine users are now able to take advantage of high performance servo drives that not only provide safety for personnel but also enable machine productivity enhancements.

The Allen-Bradley Kinetix 7000 servo drive is designed to accommodate the most demanding requirements of performance, quality, lifecycle cost and overall machine productivity. In addition, the new safe-off capability integrated in this drive can increase productivity by allowing manufacturers and machine builders to implement machine solutions that provide safety and maximum machine availability. Tasks such as machine setup, cleaning, removal of jams and other typical maintenance tasks that previously required power down conditions can now be accomplished with the new safe-off capability without removing power from the entire machine. The drive output is safely disabled to eliminate motor torque, providing safety and maximum machine availability. As a result, customers enjoy faster machine restart and shorter machine downtime.

Safety connection systems are also available to simplify use of the safe-off capability on multi-axis applications, which reduces wiring, nuisance trips and troubleshooting of the safety system. Automatic diagnostics and safety circuit status information are available at the Logix controller and ready for customer use. The true system integration provided by Kinetix Integrated Motion simplifies the task.

The Kinetix 7000 integral safety solution is certified by TUV and meets the requirements of EN-954-1 Category 3 and IEC-61508 SIL 3.

Look for the GuardMotion logo on Allen-Bradley servo products offering built-in safety for greater productivity.



For more information refer to our web site: www.ab.com/motion, or the Kinetix selection guide, GMC-SG001x

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