KOLLMORGEN ®

Because Motion Matters™

Get the Versatility You Need to Build an Optimized Machine.

Announcing the New Kollmorgen AKD™ Family of Drives.

The AKD Servo Drive delivers cutting-edge technology and performance with one of the most compact footprints in the industry. These feature-rich drives provide a solution for nearly any application, from basic torque-and-velocity applications, to indexing, to multi-axis programmable motion with embedded Kollmorgen Automation Suite™. The versatile AKD sets the standard for power density and performance.

Micron™ Gearheads

AKM™ Servomotors

Cartridge Direct Drive Rotary™ Motors

Direct Drive Linear Motors

Best-in-Class Components
AKD works seamlessly with Kollmorgen motors–well-known for quality, reliability, and performance.
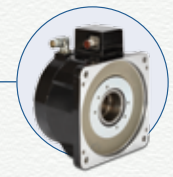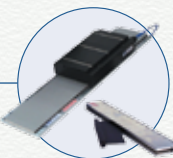
Kollmorgen Automation Suite

AKD can be embedded with our innovative Automation Suite for high-performance single- and multi-axis systems. Kollmorgen Automation Suite offers full IEC 61131-3 machine control with tightly integrated motion control capabilities, as well as our exclusive Pipe Network™ programming environment.

Powerful Performance. Effortless Flexibility. Simple Integration.

KOLLMORGEN®

Because Motion Matters™

AKD is specifically designed with the versatility, communications, and power you need to expand machine performance and increase integration speeds. Motor set-up is plug-and-play and multiple Ethernet connectivity options provide both open and closed protocols. Online troubleshooting and data verification enable faster, bug-proof programming. And a broad power range in a smaller, compact design allows you to use these robust drives with a single interface.

Easy to Use

- Plug-and-play compatibility with Kollmorgen motors
- Graphical User Interface (GUI) with intuitive icons and screen flow makes navigation, set-up, and programming quick and easy
- Digital signal processor control supports reliable, repeatable steps
- Screw terminal connectors on I/O allow for fast and easy installation. Optically-isolated I/O reduces noise, and eliminates need for additional hardware

Fast

- Accommodates changing load conditions immediately. Torque loop updates in 0.67 µs. Velocity and position loops lead the market at 62.5 µs and 250 µs, respectively
- Optimizes efficiency at the click of a button with auto-tuning and wizard-based tuning. Guided manual tuning also standard
- Fast data acquisition with PC-compatible TCP/IP Ethernet service channel
- Real-time performance feedback

Flexible

- Supports a variety of feedback devices—Smart Feedback Device (SFD), EnDat2.2, EnDat2.1, BiSS, Analog Sine/Cos encoder, incremental encoder, HIPERFACE®, and resolver
- No additional hardware needed for additional programming intelligence
- Multiple bus choices for system optimization, including EtherCAT®, SynqNet®, Modbus/TCP, and CANopen®
- Common interface and hardware for 1.1 kW to 64 kW
- SIL-qualified, over-voltage, current, and temperature detection provided for added dependability
- Option cards that increase available I/O, add NVRAM and processing power providing multi-axis machine control capability

AKD Dimensions

120 / 240 Vac 1~& 3~(85 V-265 V)	Continuous Current (Arms)	Peak Current (Arms)	Drive Continuous Output Power (watts)	Continuous Motor Shaft Power (watts) *	H (mm)	W (mm)	D (mm)	Depth with Cable Bend Radius (mm)
AKD-■00306	3	9	1100	500	168	57	153	184
AKD-■00606	6	18	2000	1000	168	57	153	184
AKD-■01206	12	30	4000	2000	195	76	186	215
AKD-■02406	24	48	8000	4000	250	100	230	265
AKD-■04806	48	96	16000	8000	*Coming in 2010*			

480 Vac (3~187 V-528 V)	Continuous Current (Arms)	Peak Current (Arms)	Drive Continuous Output Power (watts)	Continuous Motor Shaft Power (watts) *	H (mm)	W (mm)	D (mm)	Depth with Cable Bend Radius (mm)
AKD-■00307	3	9	2000	1000	256	70	186	221
AKD-■00607	6	18	4000	2000	256	70	186	221
AKD-■01207	12	30	8000	4000	256	70	186	221
AKD-■02407	24	48	16000	8000	310	105	229	264
AKD-■04807	48	96	32000	16000	*Coming in 2010*			
AKD-■09607	96	192	64000	32000	*Coming in 2010*			

* Power @ 3000 RPM (Nominal bus - 10%, 3 phase/DC)

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