

AKD[®] PDMM

Motion Controller, PLC, and Servo Drive in One Device

Outstanding in terms of flexibility and performance: Supplied in two performance categories, the AKD PDMM (Programmable Drive Multi Master) controls 10 or more axes* at 1-ms cycle time in the 800 MHz version, 20 or more axes* in the 1.2-GHz version, and also offers PLC functionality without an additional motion controller. You therefore save space in your switch cabinet, reduce wiring complexity, and lower machine costs. The Kollmorgen Automation Suite (KAS) development environment assists you with programming and reduces development times considerably – irrespective of whether it is a single-axis drive or a drive system with 50 axes.

* With increased cycle time

Technical Data

120/240 V AC 1 and 3-phase	Continuous current (A _{eff})	Peak current (A _{eff})	H (mm)	W (mm)	D (mm)
AKD-M00306-Mx*EC-D000	3	9	168	89	156
AKD-M00606-Mx*EC-D000	6	18	168	89	156
AKD-M01206-Mx*EC-D000	12	30	196	96	187
240/400/480 V AC 3-phase	Continuous current (A _{eff})	Peak current (A _{eff})	H (mm)	W (mm)	D (mm)
AKD-M00307-Mx*EC-D000	3	9	256	100	185
AKD-M00607-Mx*EC-D000	6	18	256	100	185
AKD-M01207-Mx*EC-D000	12	30	256	100	185
AKD-M02407-Mx*EC-D000	24	48	306	105	228
AKD-M04807-Mx*EC-D000	48	96	320	180	225

* x=C: 0.8-GHz version, x=1: 1.2-GHz version

Features

- The Kollmorgen Automation Suite is a comprehensive piece of automation software with effective tools for programming and start-up.
- Real-time-capable control with EtherCAT Master integrated in an AKD servo drive
- Programming interface as per IEC 61131-3 with full support of the five programming languages
- Reduced development times during drive programming with the Pipe Network™, the intuitive, graphical programming languages, or alternatively with PLCopen
- 128 kB of non-volatile memory for the secure storage of important machine and process data
- SD card slot for backing up and restoring application software, firmware, and control parameters without a PC
- Local digital and analog inputs and outputs: 13 digital inputs, four digital outputs, an analog input, an analog output (expandable using AKT series EtherCat bus terminals)
- Direct connection of the operating device through the integrated Kollmorgen Visualization Builder (KVB) HMI software and full support of the Kollmorgen AKI series operating devices
- A central connection for the PLC, HMI, motion control, servo drive, and CAM Designer
- Shorter start-up times due to error detection using simulation during application development
- Simple integration into available automation architectures with integrated Ethernet/IP, ProfiNet, or ModbusTCP interfaces
- Integrated web server for maintenance work, no software installation required

