



## AX25xx | Digital Compact Servo Drives

The AX2500 series is a modular drive system. The AX2500 Servo Drives are fully software-compatible with the AX2000. In its maximum configuration, the multi-axis system comprises eight axes, i.e. a supply module with seven axis modules. The supply module comprises a

power supply, a mains filter for power and auxiliary voltage, a ballast circuit and resistor and a power output stage. The following axis modules are simply plugged directly onto the supply module and connected with each other in the intermediate DC circuit via a socket strip, which

is also used for looping through the 24 V DC auxiliary voltage. This provides the user with a very compact, cost-optimised servo system, which is flexibly adaptable to the respective requirements. Compared with single axes, the wiring and commissioning effort is reduced sig-

nificantly. The modular concept also minimises possible sources of error.

The variable fieldbus connection enables simple integration into various control worlds: PROFIBUS DP, SERCOS interface, CANopen, real-time Ethernet and Lightbus. The AX2500 Servo

Technical data	AX2503	AX2506	AX2513	AX2516	AX2523	AX2526
Function	master module	master module	master module	master module	axis module	axis module
Rated output current	3 A	6 A*	3 A	6 A*	3 A	6 A*
Rated supply voltage	1 x 115...1/3 x 230 V AC ±10 %, 50...60 Hz	1 x 115...1/3 x 230 V AC ±10 %, 50...60 Hz	3 x (230...400) V AC ±10 %, 50...60 Hz	3 x (230...400) V AC ±10 %, 50...60 Hz	–	–
Rated intermediate circuit DC voltage	(160...310) V DC	(160...310) V DC	(310...560) V DC	(310...560) V DC	(160...560) V DC	(160...560) V DC
Rated output current (rms value ±3 %)	3 A <sub>rms</sub>	6 A <sub>rms</sub> *	3 A <sub>rms</sub>	6 A <sub>rms</sub> *	3 A <sub>rms</sub>	6 A <sub>rms</sub> *
Peak output current (max. approx. 5 s ±3 %)	9 A <sub>rms</sub>	12 A <sub>rms</sub> *	9 A <sub>rms</sub>	12 A <sub>rms</sub> *	9 A <sub>rms</sub>	12 A <sub>rms</sub> *
Maximum installed power for S1 operation, multi-axis systems	7 kVA	7 kVA	12 kVA	12 kVA	–	–
Continuous output of regen circuit (RBint)	40 W	40 W	40 W	40 W	–	–
Further information	www.beckhoff.com/AX25xx					

Dimensions	AX2503	AX2506	AX2513	AX2516	AX2523	AX2526
Height without connectors	230 mm	267 mm*	230 mm	267 mm*	230 mm	267 mm*
Width	100 mm	100 mm	100 mm	100 mm	50 mm	50 mm
Depth without connectors	240 mm					

\*with attached fan

Drive can be used for motors with resolver or with single-turn/multi-turn absolute encoder. The operation of linear and asynchronous motors is also possible. Ready-made motor and feedback lines are offered as accessories.

#### Features

- mains connection
- mains filter included centrally in the supply module
- compliance with all relevant standards: CE, UL, cUL
- screened connections directly at the AX2500

- 24 V DC connection
- enable connection
- RS232 connection
- intermediate circuit coupling for all axes via socket strip
- BTB ("ready for operation") contact
- device-dependent supply voltage:  
1 x/3 x 115 V AC...230 V AC for supply module  
AX2503/AX2506,  
3 x 230 V AC...400 V AC for supply module  
AX2513/AX2516
- Earth-free operation is acceptable.
- simple mechanical mounting via DIN rails
- only two different housing widths for supply module/axis module 100 mm/50 mm
- mounting on DIN rail for 300 mm control cabinets

## Servo Drives with fieldbus interface AX2500-Bxxx

Ordering information	AX25xx-Bxxx-0000
AX2503-B200-0000	master module, 115 V...230 V, rated output current 3 A, Lightbus interface
AX2506-B200-0000	master module, 115 V...230 V, rated output current 6 A*, Lightbus interface
AX2513-B200-0000	master module, 230 V...400 V, rated output current 3 A, Lightbus interface
AX2516-B200-0000	master module, 230 V...400 V, rated output current 6 A*, Lightbus interface
AX2523-B200-0000	axis module, rated output current 3 A, Lightbus interface
AX2526-B200-0000	axis module, rated output current 6 A*, Lightbus interface
AX2503-B310-0000	master module, 115 V...230 V, rated output current 3 A, PROFIBUS DP interface
AX2506-B310-0000	master module, 115 V...230 V, rated output current 6 A*, PROFIBUS DP interface
AX2513-B310-0000	master module, 230 V...400 V, rated output current 3 A, PROFIBUS DP interface
AX2516-B310-0000	master module, 230 V...400 V, rated output current 6 A*, PROFIBUS DP interface
AX2523-B310-0000	axis module, rated output current 3 A, PROFIBUS DP interface
AX2526-B310-0000	axis module, rated output current 6 A*, PROFIBUS DP interface
AX2503-B510-0000	master module, 115 V...230 V, rated output current 3 A, CANopen interface
AX2506-B510-0000	master module, 115 V...230 V, rated output current 6 A*, CANopen interface
AX2513-B510-0000	master module, 230 V...400 V, rated output current 3 A, CANopen interface
AX2516-B510-0000	master module, 230 V...400 V, rated output current 6 A*, CANopen interface
AX2523-B510-0000	axis module, rated output current 3 A, CANopen interface
AX2526-B510-0000	axis module, rated output current 6 A*, CANopen interface
AX2503-B750-0000	master module, 115 V...230 V, rated output current 3 A, SERCOS interface
AX2506-B750-0000	master module, 115 V...230 V, rated output current 6 A*, SERCOS interface
AX2513-B750-0000	master module, 230 V...400 V, rated output current 3 A, SERCOS interface
AX2516-B750-0000	master module, 230 V...400 V, rated output current 6 A*, SERCOS interface
AX2523-B750-0000	axis module, rated output current 3 A, SERCOS interface
AX2526-B750-0000	axis module, rated output current 6 A*, SERCOS interface
AX2503-B900-0000	master module, 115 V...230 V, rated output current 3 A, Ethernet interface
AX2506-B900-0000	master module, 115 V...230 V, rated output current 6 A*, Ethernet interface
AX2513-B900-0000	master module, 230 V...400 V, rated output current 3 A, Ethernet interface
AX2516-B900-0000	master module, 230 V...400 V, rated output current 6 A*, Ethernet interface
AX2523-B900-0000	axis module, rated output current 3 A, Ethernet interface
AX2526-B900-0000	axis module, rated output current 6 A*, Ethernet interface

\*with attached fan

Servo Drives with DeviceNet interface on request

Accessories see page 1129