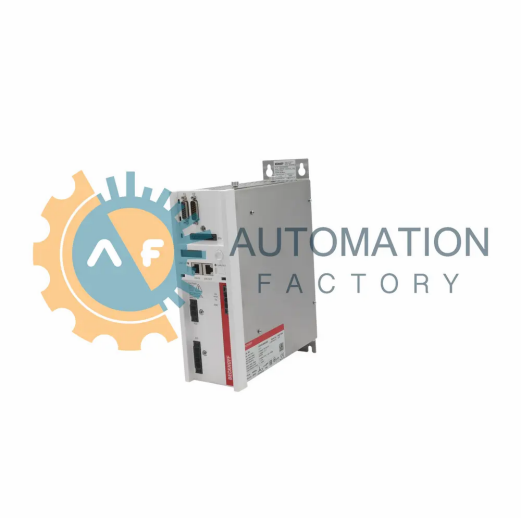
Beckhoff — AX Digital Servo Drives

AX5112-0000-0202



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The **AX5112-0000-0202** is a single-axis servo inverter manufactured by Beckhoff for the AX Digital Servo Drives series. It interfaces between a three-phase mains supply and a synchronous or induction motor, delivering the regulated current required for position and velocity control in packaging lines, robotic cells, and material-handling equipment. Integration into EtherCAT-based systems allows the unit to operate in distributed control cabinets while maintaining cycle-synchronous motion profiles.

This drive supplies an apparent power of **8.3 kVA** at 400 V and delivers a nominal motor current of **12 A**, with short-term peaks up to **26 A** for accelerating high-inertia loads. Continuous operation generates **160 W** of power loss, so forced-air cooling is sufficient for most cabinets. The fastest fieldbus and position-loop refresh occurs every **250 µs**, supporting multi-axis interpolation. One channel controls the motor, while eight digital inputs accept signals from limit switches or drive-enable circuits. A DC-link capacitance of 1175 µF stabilizes the intermediate circuit during changes in motor demand. The three-phase supply is routed through busbars, and the housing measures 185 mm wide and 232 mm deep, allowing side-by-side mounting with additional AX units.

Regenerative energy is handled first by an internal brake transistor with a peak capacity of **26 kW** and continuous dissipation of 90 W. For large downward moves or frequent decelerations, an external resistor rated for up to **23.5 kW** can be connected. The external resistor must have a resistance of at least **30 ?** to keep current within the semiconductor limits. Overvoltage monitoring protects the intermediate circuit by tripping when its voltage approaches **875 VDC**. This protective response works with the DC-link capacitor and supply bus to prevent

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excessive electrical stress during regenerative operation. The braking arrangement directs returned motor energy away from the DC link when its voltage rises, while the internal monitoring system interrupts operation if the permitted threshold is approached.

Specifications

Apparent Power At 400 V:	8.3 kVA	**Channels:**	1	**Dc Link Capacitance:**	1175 µF
Depth:	232 mm	**Digital Inputs:**	8	**Fastest I/O Update:**	250 µs
Internal Brake Peak Power:	26 kW	**Internal Braking Power:**	90 W	**Max Dc Link Voltage:**	875 VDC
Max External Brake Power:	23.5 kW	**Min External Brake Resistance:**	30 ?	**Nominal Output Current:**	12 A
Peak Output Current:	26 A	**Power Loss:**	160 W	**Supply Phases:**	3
Width:	185 mm	**Last Verified:**	11/10/2026 5:23 PM		

Contact Us

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