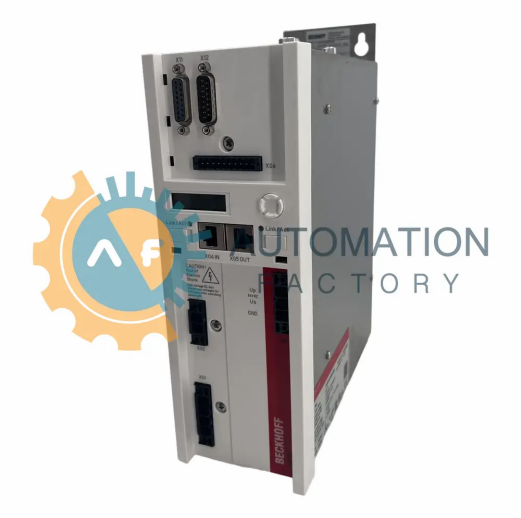
Beckhoff — AX Digital Servo Drives

AX5112-0000-0200



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The **AX5112-0000-0200** is a servo drive manufactured by Beckhoff for the AX Digital Servo Drives series. The unit operates as the power stage between a motion controller and a three-phase motor, translating low-level command signals into regulated current for precise torque and speed control. By supporting closed-loop positioning, it serves packaging axes, gantry carriages, and material-handling equipment that demand repeatable motion in industrial automation. Its design supports cabinet mounting alongside other drive modules.

At its continuous rating, the drive delivers **12 A** of output current, while a short-duration peak of **26 A** accommodates acceleration or sudden load changes. A configurable output setting down to 0.5 A allows the current to be matched to smaller motors. The DC link handles **875 VDC** and stores energy in a **940 µF** capacitor bank, providing voltage stability during regenerative events; a minimum external brake resistor of 30 ? can be connected when greater dissipation is required. Apparent power reaches **8.3 kVA** on a 400 VAC supply, and the internal semiconductor design withstands fault currents up to **18 kA** before protective trips occur. Sensor supplies rated at 1 A are available for encoder electronics, and overall power loss is limited to 160 W to control cabinet heating.

The drive integrates an internal brake chopper rated at **90 W**, which supports routine deceleration of low-inertia axes without additional hardware. For high-energy stops, an external resistor network can absorb up to **23.5 kW**, allowing machines to halt heavy loads without exceeding thermal limits. **Eight opto-isolated digital inputs** support functions such as enable, fast stop, and mode selection. The housing measures 92 mm wide, 232 mm deep, and 317.70 mm high, allowing the unit to fit into IEC 61439 control enclosures with standard air gaps.

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Specifications

Configurable Output Current:	0.5 A	**Dc Link Capacitance:**	940 µF	**Depth:**	232 mm
Digital Inputs:	8	**External Brake Power:**	23.5 kW	**Height:**	317.70 mm
Internal Braking Power:	90 W	**Max Dc Link Voltage:**	875 VDC	**Min External Brake Resistor:**	30 ?
Nominal Output Current:	12 A	**Peak Output Current:**	26 A	**Power Loss:**	160 W
S1 Apparent Power At 400 Vac:	8.3 kVA	**Sensor Supply Current:**	1 A	**Short-circuit Rating:**	18 kA
Width:	92 mm	**Last Verified:**	11/09/2026 4:05 PM		

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Shipping Options

Payment Methods

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