Beckhoff — AX Digital Servo Drives

AX5201-0000-0200



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The **AX5201-0000-0200** is a dual-channel servo drive produced by Beckhoff for the AX Digital Servo Drives series. It connects to a common DC bus and converts electrical energy into controlled, pulse-width-modulated outputs for two motors. The independent channels support coordinated motion in packaging lines, pick-and-place gantries, and similar automation cells. Regenerative braking allows energy from decelerating loads to return to the DC link, where the integrated braking system can dissipate excess energy.

With a 230 VAC supply, the drive draws an apparent power of **1.2 kVA**, which helps determine the required upstream transformer and circuit breaker. The internal DC link has **235 µF** of capacitance for transient motor demands and regenerated energy. Continuous braking power is dissipated as heat at up to **50 W**. The DC-link voltage must remain below **875 VDC** to protect the power semiconductors from excessive electrical stress. Each channel can deliver a peak phase current of **5 A**, while nominal operation provides 1.5 A per channel and a combined continuous output of 3 A. The smallest adjustable peak-current setting is 0.35 A, permitting precise torque limits for actuators that require controlled force. The enclosure measures 92 mm wide, 232 mm deep, and 317.70 mm high, providing a narrow profile for installation in control cabinets.

During dynamic braking, the internal resistor can absorb up to **14 kW** for short periods. An external resistor bank supports braking power of up to **15 kW** when larger loads produce more regenerative energy during deceleration. The external braking resistance must not fall below **47 ?**, which keeps current within the switching transistors' operating limits. The drive produces a steady power loss of **55 W**, so cabinet airflow must remove the resulting heat

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during continuous operation. Adequate spacing around the module helps prevent heat from accumulating near adjacent drives and other temperature-sensitive control components.

Specifications

Apparent Power At 230 Vac:	1.2 kVA	**Dc Link Capacitance:**	235 µF	**Depth:**	232 mm
Height:	317.70 mm	**Max. Continuous Braking Power:**	50 W	**Max. Dc Link Voltage:**	875 VDC
Max. External Braking Power:	15 kW	**Max. Internal Braking Power:**	14 kW	**Max. Peak Output Current/channel:**	5 A
Min. External Braking Resistor:	47 ?	**Nominal Output Current/channel:**	1.5 A	**Nominal Sum Current:**	3 A
Peak Output Current Total:	10 A	**Power Loss:**	55 W	**Smallest Param. Peak Current:**	0.35 A
Width:	92 mm	**Last Verified:**	11/09/2026 4:06 PM		

Contact Us

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