Beckhoff — AX Digital Servo Drives

AX5206-0000-0202



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The **AX5206-0000-0202** is a dual-channel servo drive that Beckhoff supplies within its AX Digital Servo Drives series. It regulates torque and velocity for two three-phase servomotors, allowing machine controllers to coordinate precise motion axes while sharing the unit's common DC link. By converting a fixed 400 VAC supply into controlled pulse-width modulated output, the drive forms a core element in packaging lines, test rigs, and material-handling stations that require synchronized positioning.

Each channel can deliver a continuous three-phase current of **6 A**, and together they support a nominal total current of **12 A**. For rapid acceleration, the current capacity of each channel rises to **13 A**, while the device can momentarily supply a combined **26 A** to cover simultaneous peaks. The intermediate circuit is rated for up to **875 VDC**, and a DC-link capacitance of **470 µF** stabilizes the bus voltage during regenerative events. The internal thermal design limits steady conduction losses to 160 W, and the drive converts 8.3 kVA of apparent power at 400 V in S1 duty. Continuous braking power of up to 90 W is absorbed by onboard resistors, whereas external dissipation requires a brake resistor with a minimum resistance of 47 ? to prevent overcurrent.

Short bursts create higher electrical and thermal loads, so the external brake circuit can handle **15 kW** of peak braking power. The integrated resistor tolerates up to **14 kW** for brief intervals without exceeding its temperature limits. Cabinet installation is simplified by a width of 92 mm, a depth of 232 mm, and a height of 317.70 mm, permitting dense side-by-side mounting. The enclosure has an **IP20** protection rating, so the drive must be installed in a closed control panel that is free from conductive dust. Total power loss, dimensions, and mandatory brake

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resistor values help determine the ventilation capacity and wiring gauge required for safe continuous operation.

Specifications

3-phase Current Per Channel:	6 A	**3-phase Nominal Sum Current:**	12 A	**Continuous Internal Brake Power:**	90 W
Dc Link Capacitance:	470 µF	**Depth:**	232 mm	**Height:**	317.70 mm
Max Dc Link Voltage:	875 VDC	**Min External Brake Resistor:**	47 ?	**Peak Current Per Channel:**	13 A
Peak Device Current:	26 A	**Peak External Brake Power:**	15 kW	**Peak Internal Brake Power:**	14 kW
Power loss:	160 W	**Protection Rating:**	IP20	**S1 Apparent Power At 400 V:**	8.3 kVA
Width:	92 mm	**Last Verified:**	11/07/2026 6:49 AM		

Contact Us

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