Beckhoff — AX Digital Servo Drives

AX5140-0000-0202



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The **AX5140-0000-0202** is a single-axis drive from Beckhoff's AX Digital Servo Drives series. It converts three-phase mains power into controlled output for synchronous servomotors used in positioning, packaging, and material-handling cells. By combining the power section, brake chopper, and control logic in one IP20 housing, the unit simplifies cabinet layouts and reduces the number of separate components required for industrial automation systems.

The drive supports apparent power of up to **28 kVA** from a 400 V supply, and its continuous motor phase current is rated at **40 A**. Short-duration current peaks reach **80 A**, providing additional motor torque during acceleration. Energy is buffered on a DC link that tolerates a maximum voltage of **875 VDC**. A built-in capacitance of **1485 µF** smooths voltage ripple and absorbs regenerative surges. Power loss inside the electronics is limited to **510 W**, so forced-air cooling can maintain operating temperature in ambient conditions up to 50 °C. The unit has an IP20 protection rating and measures 317.7 mm high, 185 mm wide, and 232 mm deep. It weighs 13 kg, while a continuous brake channel rated at 150 W dissipates moderate overvoltage energy without an external resistor. Internal monitoring also detects temperature and overcurrent faults during operation.

When larger kinetic loads regenerate energy, the integrated chopper can divert up to **26 kW** to the internal brake resistor. An external braking network can increase the dissipation capacity to **32 kW**. Connecting an auxiliary resistor with a resistance of at least **22 ?** permits this higher limit without overstressing the brake transistor. The available braking capacity supports rapid deceleration of heavy tooling while limiting excess energy on the shared

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DC bus. This arrangement is suitable for conveyors, gantry axes, and rotary tables that operate with frequent acceleration and deceleration cycles.

Specifications

Apparent Power At 400 V:	28 kVA	**Continuous Brake Power:**	150 W	**Dc Link Capacitance:**	1485 µF
Depth:	232 mm	**Height:**	317.70 mm	**Max Dc Link Voltage:**	875 VDC
Max External Brake Power:	32 kW	**Max Internal Brake Power:**	26 kW	**Max Operating Temp:**	50 °C
Min External Brake Resistance:	22 ?	**Nominal Output Current:**	40 A	**Peak Output Current:**	80 A
Power Loss:	510 W	**Protection Rating:**	IP20	**Weight:**	13 kg
Width:	185 mm	**Last Verified:**	11/10/2026 3:20 PM		

Contact Us

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