Beckhoff — AX Digital Servo Drives

AX2090-ND50-0060



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The **AX2090-ND50-0060** is a drive module manufactured by Beckhoff within the AX Digital Servo Drives series. It supplies controlled three-phase power to synchronous or induction motors used in positioning, transport, and process-control applications. By modulating voltage and current in response to commands from the motion controller, the unit enables precise speed and torque regulation in industrial automation systems.

At its motor terminals, the drive delivers a phase-to-phase voltage of **3 × 460 V AC**, while a line frequency of 50/60 Hz provides compatibility with common industrial power systems. The continuous output current reaches **60 A**. During acceleration or sudden loading, the electronics support an overload of **2 × IN for 30 seconds** before reaching their thermal limits. The intermediate-circuit inductance of **0.25 mH** smooths current changes, helping reduce ripple at the motor windings and suppress switching spikes on the DC bus. The enclosure has an **IP00** protection rating, so the device must be installed inside a closed control cabinet. A P2 contamination level indicates the permissible amount of conductive dust within that enclosure.

The module weighs **7 kg**, placing a moderate static load on DIN-rail or back-panel mounting fixtures. Its power semiconductors dissipate **70 W** at rated load, so cabinet airflow must remove this heat to keep internal temperatures within operating limits. Line and motor cables connect through terminals that accommodate conductors with a cross-sectional area of **16 mm²**, allowing the use of suitably rated power wiring. The housing measures 190 mm wide, 120 mm deep, and 200 mm high, so the cabinet layout must provide adequate installation clearance and space for adjacent modules. A **short-circuit voltage of 9.24 V at 400 V** supports coordination with

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upstream protective fuses.

Specifications

Cable Cross Section:	5.0 mm²	**Cable Type:**	Power cable	**Compliances:**	UL, cUL, CE
Connection Cross-section:	16 mm²	**Connection Type:**	Preassembled with connectors	**Contamination Level:**	P2
Depth:	120 mm	**Halogen Free:**	Yes	**Height:**	200 mm
Inductance:	0.25 mH	**Length:**	6 meters	**Outer Jacket Material:**	PUR (Polyurethane)
Overload Factor:	2 x IN for 30 s	**Power Loss:**	70 W	**Protection Class:**	IP00
Rated Current:	60 A	**Rated Frequency:**	50/60 Hz	**Rated Voltage:**	3 x 460 V AC
Shielding:	Shielded	**Short-circuit Voltage:**	9.24 V at 400 V	**Suitable For Drag Chain:**	Yes
Temperature Range:	-30°C to +80°C (fixed installation)	**Voltage Rating:**	Up to 600 V	**Weight:**	7 kg
Width:	190 mm	**Last Verified:**	11/08/2026 10:02 AM		

Contact Us

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