Beckhoff — AX Digital Servo Drives

AX5103-0000-0202



In-Stock, Ships 3-5 Days

- ☑ Get a Quote in 5 minutes
- ☑ Parts ship in as little as 24 hours
- ☑ Up to half the cost of the manufacturer

Secure Online Checkout

Free Ground Shipping

One Year Warranty

The **AX5103-0000-0202** is a single-axis servo drive manufactured by Beckhoff for the AX Digital Servo Drives series. It converts fixed-frequency three-phase power into a controlled output that regulates motor torque and velocity in industrial automation systems. The unit supports DC-bus sharing and includes an internal brake chopper, allowing regenerated energy to be managed during motor deceleration. Its compact design is suitable for packaging lines, pick-and-place stations, and light machining axes that require precise speed and torque control.

The drive delivers a nominal output current of **3 A**, while its parameters permit a minimum peak current setting of 1 A for lightly loaded mechanisms. During acceleration, the output current can rise to **7.5 A** to provide additional torque. The reinforced DC link operates at up to **875 VDC**, and the control section supports output frequencies as high as **599 Hz** for high-speed motors. The housing has an **IP20** rating and measures 317.70 mm in height, 92 mm in width, and 232 mm in depth without connectors. Internal power loss is 50 W, so the installation must provide sufficient panel ventilation to remove heat. A DC-link capacitance of 235 µF smooths voltage changes during rapid torque commands. An external braking resistor with a minimum resistance of 47 ? can be connected through the front terminals.

The built-in brake resistor absorbs up to **14 kW** during short braking events, while an external resistor network increases the permissible peak braking power to **15 kW**. For repetitive deceleration cycles, the continuous braking power is limited to **50 W** to prevent thermal overload. The brake chopper directs regenerated motor energy to the selected resistor when the DC-link voltage rises during deceleration. This arrangement allows the drive to control

Automation Factory sells factory new and pre-owned surplus products and maintains channels to procure supply. Automation Factory is not affiliated with nor an authorized distributor or representative of any manufacturers, brands or products listed. Designated trademarks, brand names, and brands appearing herein are the property of their respective owners.

© 2026 Automation Factory. All rights reserved.

braking energy without feeding it directly back to the incoming power supply. The module weighs**4 kg**, which reduces the mechanical load on cabinet mounting surfaces and simplifies handling during installation. Its narrow housing also helps preserve horizontal space when several servo drives are installed together in a multi-axis enclosure.

Specifications

Continuous Braking Power:	50 W	**Dc Link Capacitance:**	235 µF	**Depth Without Connectors:**	232 mm
Height:	317.70 mm	**Max Dc Link Voltage:**	875 VDC	**Max External Braking Power:**	15 kW
Max Internal Braking Power:	14 kW	**Max Output Frequency:**	599 Hz	**Min External Braking Resistor:**	47 ?
Min Peak Current Setting:	1 A	**Nominal Output Current:**	3 A	**Peak output current:**	7.5 A
Power Loss:	50 W	**Protection rating:**	IP20	**Weight:**	4 kg
Width:	92 mm	**Last Verified:**	11/09/2026 1:13 PM		

Contact Us

1620 Old Apex Road, Cary, NC 27513, USA

Toll Free: 1-888-551-3082

International: 1-919-443-0207

Fax: 1-919-867-6204

Email: sales@wakeindustrial.com

Shipping Options

DHL · FedEx · UPS · Freight

Payment Methods

American Express · MasterCard · VISA · Wire Transfer

Automation Factory sells factory new and pre-owned surplus products and maintains channels to procure supply. Automation Factory is not affiliated with nor an authorized distributor or representative of any manufacturers, brands or products listed. Designated trademarks, brand names, and brands appearing herein are the property of their respective owners.

© 2026 Automation Factory. All rights reserved.