Beckhoff — AX Digital Servo Drives

AX5160-0000-0200



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The **AX5160-0000-0200** is supplied by Beckhoff within the AX Digital Servo Drives series. It interfaces with a central motion controller to energize three-phase motors, shaping the DC-link voltage into pulse-width-modulated outputs that generate commanded torque and velocity in industrial automation cells. Integrated braking circuitry allows kinetic energy from decelerating axes to be redirected to external resistors instead of returning it to the mains.

The drive delivers apparent power levels of **42 kVA** at 400 V AC and **45 kVA** when operated with a 480 V AC supply. A DC-link capacitor bank rated at **900 µF** stabilizes the intermediate circuit against load transients, while an internal current path tolerates a nominal motor load of **60 A** and accommodates peaks up to **120 A** for rapid acceleration profiles. The minimum continuous motor current starts at 16 A to ensure reliable current measurement accuracy. Protective logic monitors the link voltage and coordinates with a short-circuit current rating of 5 kA, while normal conversion losses are limited to 830 W to simplify enclosure cooling. The housing has a depth of **259 mm** without connectors, permitting side-by-side mounting on standard control cabinet backplates.

The braking module can dissipate up to **52 kW** of instantaneous power and supports a continuous rating of **37 kW** when paired with a resistor of at least 13 ?. DC-link supervision trips if the bus voltage rises above **875 VDC**, and a mandatory 15-minute discharge period must elapse before maintenance access. The enclosure is 345 mm tall and 190 mm wide, keeping heat paths short and allowing vertical alignment with other AX units. Its proportions also preserve access to the electrical connections when multiple drive modules are installed in the same control cabinet.

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Specifications

Apparent Power At 400 V:	42 kVA	**Apparent Power At 480 V:**	45 kVA	**Dc Link Capacitance:**	900 µF
Depth Without Connectors:	259 mm	**Discharge Wait Time:**	15 min	**Height Without Plugs:**	345 mm
Max Braking Power:	52 kW	**Max Continuous Braking Power:**	37 kW	**Max Dc Link Voltage:**	875 VDC
Min Braking Resistor:	13 ?	**Minimum Nominal Motor Current:**	16 A	**Nominal Output Current:**	60 A
Peak Output Current:	120 A	**Power Loss:**	830 W	**Sccr:**	5 kA
Width:	190 mm	**Last Verified:**	11/08/2026 2:51 PM		

Contact Us

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