

NexBot Robotics MD132-016

Multi-Axis Servo Drive

NexBot
Robotics

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Systems > Servo Drives > Multi-Axis Servo Drives

Overview

The NexBot Robotics MD132-016 is a compact, high-performance multi-axis servo drive engineered to deliver precise, synchronized motion control for up to two robotic axes from a single unit. This drive is designed for dynamic applications where space in the control cabinet is at a premium and high-speed, coordinated movement is critical. Its advanced processing capabilities and fast control loops ensure superior tracking accuracy and reduced settling times, leading to shorter cycle times and increased production throughput. Key features include a robust power stage capable of delivering 16A of continuous current and up to 32A peak current per axis, making it suitable for a range of small to medium-sized servo motors. The MD132-016 also incorporates essential safety features, including Safe Torque Off (STO) certified to SIL 3 / PLe, which helps protect personnel and equipment without requiring external contactors. This servo drive is commonly deployed in applications such as automated assembly, pick-and-place, CNC machining, and high-speed packaging. The dual-axis design significantly simplifies system architecture and wiring, reducing installation time and potential points of failure. The drive operates on a standard 480VAC three-phase input and is configured using our intuitive NexBot DriveSuite software, which provides tools for tuning, diagnostics, and parameter management. Its compact form factor (245 x 75 x 190 mm) allows for high-density mounting, optimizing valuable cabinet real estate.

Technical Specifications

Parameter	Value	Unit
Weight	4.2	kg
Material	Anodized Aluminum	
Voltage	480VAC	
IP Rating	IP20	
Country of Origin	CH	
Protocol	EtherCAT	
Dimensions	245 x 75 x 190 mm	
Torque	16 Nm	

Safety Notice: This product must be installed and operated by qualified personnel in accordance with applicable safety standards (ISO 10218, IEC 61508).

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