

NexBot Robotics MD132-005

3-Axis Servo Drive

**NexBot
Robotics**

SKU: NXB-SRV-MD132-005 | Category: Drive
Systems > Servo Drives > Multi-Axis Servo Drives

Overview

The NexBot Robotics MD132-005 is a compact, high-performance multi-axis servo drive designed to provide precise, synchronized motion control for up to three servo motors in demanding industrial automation applications. This drive consolidates the control for multiple axes into a single hardware unit, significantly reducing control cabinet footprint, simplifying wiring, and improving the reliability of coordinated motion paths. Its primary use is to power and control the joints of articulated and SCARA robots where space and performance are critical. This real-time capability allows for smoother, more accurate tool path following and shorter cycle times. The drive operates on a standard industrial 400-480VAC 3-Phase input and can deliver continuous power suitable for a wide range of NexBot servo motors. Integrated safety is a core feature, with a built-in STO (Safe Torque Off) function compliant with SIL 2 / PL d standards, allowing for rapid and safe shutdown of motor torque in emergency situations without powering down the entire drive. Engineered for reliability in industrial environments, the drive is housed in a rugged anodized aluminum chassis measuring just 280 x 150 x 220 mm, which also serves as an effective heat sink for passive cooling in many applications. The IP54 rating ensures protection against dust and splashing water, making it suitable for typical factory floor conditions. Installation is streamlined with DIN rail mounting compatibility and accessible, front-facing connectors and diagnostic LEDs that provide at-a-glance status on power, communication, and error states, simplifying commissioning and troubleshooting.

Technical Specifications

Parameter	Value	Unit
Weight	5.5	kg
Material	Anodized Aluminum	
Voltage	400-480VAC, 3-Phase	
IP Rating	IP54	
Country of Origin	US	
Protocol	EtherCAT	
Dimensions	280 x 150 x 220 mm	
Torque	5 Nm	

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