NexBot Robotics MD132-009 Multi-Axis Servo Drive

NexBot Robotics

SKU: NXB-SRV-MD132-009 | Category: Drive Systems > Servo Drives > Multi-Axis Servo Drives

Overview

The NexBot Robotics MD132-009 is a high-performance, multi-axis servo drive designed to provide precise motion control for demanding industrial automation and robotics applications. This compact unit is engineered to manage up to two servo axes simultaneously from a single module, significantly reducing control cabinet footprint, simplifying wiring, and lowering total system cost compared to using individual single-axis drives. Its primary function is to accurately regulate the power delivered to servo motors, enabling the complex, synchronized movements required in modern manufacturing. Key features include a high-voltage input range of 400-480VAC (3-phase), which allows it to directly power large, high-torque servo motors common in articulated robots. This direct connection enhances system efficiency by eliminating the need for bulky step-down transformers. This high-speed data exchange is critical for applications requiring precise path-following and coordinated multi-axis motion, such as robotic welding and high-speed pick-and-place operations. Integrated safety is a core component of the MD132-009 design, featuring a built-in Safe Torque Off (STO) function rated at SIL 3 / PLe. This allows for safe machine shutdown without disconnecting main power, simplifying the implementation of emergency stop circuits and reducing system restart times. The drive is housed in a rugged, IP20-rated enclosure with an advanced thermal management system, ensuring reliable performance even under continuous, heavy-duty cycles. The MD132-009 is an ideal solution for controlling the major axes of NexBot Robotics articulated robots in material handling, machine tending, and assembly tasks, providing the power and precision needed for high-throughput operations. Installation is streamlined with DIN rail mounting and accessible front-panel connectors for power, motor, and communication wiring.

Technical Specifications

Parameter	Value	Unit
Weight	7.5	kg
Material	Anodized Aluminum Alloy	
Voltage	400-480VAC	
IP Rating	IP20	
Country of Origin	CH	
Protocol	EtherCAT	

Parameter	Value	Unit
Dimensions	280 x 150 x 220 mm	
Torque	9 Nm	

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