

NexBot Vision MD132-003

Multi-Axis Servo Drive

400-480VAC



SKU: NXB-SRV-MD132-003 | Category: Drive Systems > Servo Drives > Multi-Axis Servo Drives

Overview

The NexBot Vision MD132-003 is a multi-axis servo drive designed to provide high-fidelity motion control for demanding industrial robotics applications. This compact drive unit integrates control for up to three separate servo axes, significantly reducing control cabinet space, simplifying wiring, and lowering system complexity compared to using individual single-axis drives. Its primary function is to precisely regulate the power delivered to servo motors, enabling accurate positioning, velocity, and torque control for robot joints. The key benefit of the MD132-003 servo drive is its high-performance processing capability, which supports rapid control loop updates and sophisticated motion profiles. This results in smoother robot movements, improved path accuracy, and reduced cycle times in applications like automated welding, high-speed pick-and-place, and precision assembly. The drive operates on a 400-480VAC 3-phase power input, making it suitable for heavy-duty industrial environments. Built-in safety features, including Safe Torque Off (STO), provide essential protection for personnel and equipment without requiring additional external safety relays. The drive's advanced auto-tuning algorithms simplify commissioning by automatically optimizing control parameters for the connected motor and load, reducing setup time and maximizing performance. The MD132-003 is engineered for reliability in continuous-duty operations, featuring robust thermal management and comprehensive diagnostics that monitor drive status and report potential faults before they lead to downtime. This servo drive is an essential component for achieving the speed and precision required by modern automated manufacturing systems.

Technical Specifications

Parameter	Value	Unit
Weight	7.8	kg
Material	Anodized Aluminum	
Voltage	400-480VAC	
IP Rating	IP20	
Country of Origin	IT	
Protocol	EtherCAT	

Parameter	Value	Unit
Dimensions	310 x 120 x 250 mm	
Torque	3 Nm	

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