

NexBot Vision AC111-011 Ac Servo Motor 1.1 kW

NexBot Robotics

SKU: NXB-SRV-AC111-011 | Category: Drive Systems > Servo Motors > AC Servo Motors

Overview

The NexBot Vision AC111-011 is a high-precision AC servo motor engineered for reliable, dynamic performance in industrial automation and robotics applications. This motor is specifically designed to meet the rigorous demands of multi-axis motion control, providing the power and accuracy required for complex tasks. Its primary use is as a direct replacement or for new system integrations within compatible NexBot Robotics platforms. Key features include a high-torque-density design, which allows for a compact footprint without sacrificing power output. This is critical for designing smaller, more efficient robot arms. The motor's construction minimizes cogging torque, resulting in exceptionally smooth motion and velocity control, which is essential for applications like arc welding, dispensing, and high-gloss finishing. With a rated speed of 3000 RPM, the AC111-011 enables rapid cycle times and increased throughput. The integrated high-resolution 24-bit absolute encoder provides precise feedback for closed-loop control, ensuring accurate positioning and path-following. Built for industrial environments, the motor features a rugged housing with an IP65 rating, protecting it from dust ingress and low-pressure water jets from any direction. This ensures long-term reliability in challenging factory conditions. Its thermal design promotes efficient heat dissipation, allowing for continuous operation under heavy loads without performance degradation. Common applications include material handling, machine tending, automated assembly, and pick-and-place operations where speed and precision are paramount. The standardized mounting flange and connectors simplify installation and reduce downtime during maintenance or replacement procedures, making it a dependable component for any automation system.

Technical Specifications

Parameter	Value	Unit
Weight	4.2	kg
Material	Anodized Aluminum	
Voltage	400VAC	
IP Rating	IP65	
Country of Origin	IT	
Protocol	PROFINET	

Parameter	Value	Unit
Dimensions	130 x 130 x 215 mm	
Torque	5.2 Nm	

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