

NexBot Robotics AC111-004

AC Servo Motor 400W 1.27 Nm NexBot Robotics

SKU: NXB-SRV-AC111-004 | Category: Drive Systems
> Servo Motors > AC Servo Motors

Overview

The NexBot Robotics AC111-004 is a compact, high-performance AC servo motor engineered for demanding industrial automation and robotics applications. This motor provides the power and precision required for tasks that demand high speed and accuracy, such as assembly, pick-and-place, and automated inspection. Its core design focuses on delivering consistent torque and dynamic response to execute complex motion profiles with minimal error. Key features include a power rating of 400W and a continuous torque output of 1.27 Nm, which provides the necessary force for rapid acceleration and deceleration of robot joints without sacrificing stability. The motor is capable of reaching a rated speed of 3000 RPM, enabling fast cycle times and increasing overall system throughput. An integrated high-resolution position feedback system ensures that the robot controller receives accurate, real-time data on joint position, which is critical for achieving high repeatability in automated tasks. Constructed with a durable anodized aluminum housing and sealed to an IP65 rating, the AC111-004 is built to withstand the rigors of industrial environments, offering protection against dust ingress and low-pressure water jets from any direction. This robust construction ensures long-term reliability and reduces downtime for maintenance. The motor's low-inertia design contributes to its exceptional responsiveness and energy efficiency, reducing operational costs. Standardized mounting flanges and connectors facilitate straightforward integration into new systems or as a replacement part for existing NexBot Robotics equipment, simplifying installation and maintenance procedures.

Technical Specifications

Parameter	Value	Unit
Weight	1.8	kg
Material	Anodized Aluminum	
Voltage	220VAC	
IP Rating	IP65	
Country of Origin	CH	
Protocol	PROFINET	
Dimensions	155 x 60 x 60 mm	
Torque	1.27 Nm	

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