NexBot Robotics AC111-017 AC Servo Motor, 17 Nm

NexBot Robotics

SKU: NXB-SRV-AC111-017 | Category: Drive Systems > Servo Motors > AC Servo Motors

Overview

The NexBot Robotics AC111-017 is a high-torque AC servo motor engineered for precision motion control in automated manufacturing and assembly applications. This motor is a core component for achieving the speed, accuracy, and reliability required in modern industrial automation. It is designed to integrate seamlessly with NexBot Robotics drive systems, providing a robust solution for robot joint actuation. Key features include a high-density winding design that enables it to deliver a continuous torque of 17 Nm from a compact frame. This high torque-to-inertia ratio allows for rapid acceleration and deceleration of robot joints, which directly contributes to reduced cycle times and increased throughput in production environments. The brushless design minimizes mechanical wear, significantly reducing maintenance requirements and extending the operational lifespan of the motor compared to brushed alternatives. This focus on durability translates to a lower total cost of ownership. Constructed with a rugged, black anodized aluminum housing and sealed connectors, the AC111-017 achieves an IP65 rating. This level of protection ensures the motor is safeguarded against dust ingress and low-pressure water jets from any direction, making it suitable for deployment in challenging industrial environments where particulates or fluids are present. Operating on a standard 480VAC three-phase supply, it integrates easily into existing industrial power systems without requiring specialized power conversion equipment. The integrated high-resolution feedback system provides accurate, real-time position and velocity data to the robot controller, ensuring exceptional path accuracy and repeatability for tasks like welding, material handling, and machine tending. Installation is streamlined with a standardized flange mount and pre-configured power and feedback connectors.

Technical Specifications

Parameter	Value	Unit
Weight	8.5	kg
Material	Aluminum Alloy	
Voltage	480VAC	
IP Rating	IP65	
Country of Origin	CH	
Protocol	PROFINET	

Parameter	Value	Unit
Dimensions	210 x 115 x 115 mm	
Torque	17 Nm	

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

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