

MKD041B-144-KG1-KN

Industrial automation components

Manufacturer	Bosch Rexroth
Catalog number	mkd041b-144-kg1-kn
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Weight	2.11 kgs
Component Specifications	mkd041b
Product Type	Motor
Weight	4.4 kg
Continuous Standstill Torque	2.7 Nm
Maximum Speed	7,500 rpm
Holding Brake Torque	2.2 Nm
Flange Size	82 mm

Description

The Bosch Rexroth MKD041B-144-KG1-KN is a high-performance synchronous AC servo motor from the MKD series, engineered for precision motion control in industrial automation systems. Designed for integration with platforms such as DiAx04 and Ecodrive, and compatible with DKC drive controllers, this motor excels in applications requiring reliability and efficiency. It features a plain shaft with a sealing ring, a holding brake delivering 2.2 Nm torque, and resolver feedback with multi-turn absolute position detection, ensuring precise control over extended rotations. The motor offers a continuous standstill torque of 2.7 Nm and operates at a maximum speed of 7,500 rpm, accommodating dynamic performance needs. With a frame size of 041, a winding code of 144, and a motor length of 2.7 Nm, it provides a compact yet robust solution. The centering diameter is 50 mm, and the flange size is 82 mm, facilitating straightforward integration into various systems. Encased in an IP65-rated housing, the motor is protected against dust ingress and low-pressure water jets, making it suitable for harsh industrial environments. The standard black coating and Class F insulation enhance its durability, allowing operation in ambient temperatures up to 40°C and altitudes up to 1,000 meters. This motor is an ideal choice for applications in robotics, packaging technology, and printing and paper processing machines, where high dynamic performance and operational reliability are paramount.