MSM041B-0300-NN-M5-ML1

Industrial automation components

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Manufacturer	Bosch Rexroth
Catalog number	msm041b-0300-nn-m5-ml1
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Frame Size	041
Continuous Torque at Standstill	2.4 Nm
Peak Torque	7.1 Nm
Maximum Speed	4500 RPM
Cooling Mode	Natural Convection
Encoder Type	Multiturn Absolute Encoder
Holding Brake Torque	2.45 Nm
Protection Rating	IP54
Shaft Design	Plain Shaft without Sealing Ring and Keyway

Description

The Bosch Rexroth MSM041B-0300-NN-M5-ML1 is a high-performance synchronous servo motor from the IndraDyn S series, designed for precision motion control in industrial automation applications. This motor features a compact 041 frame size and a B-type motor length, ensuring efficient integration into various systems. It delivers a continuous torque of 2.4 Nm at standstill and a peak torque of 7.1 Nm, with a maximum speed of 4,500 rpm, making it suitable for tasks requiring high torque and speed precision. The motor utilizes natural convection for cooling, eliminating the need for additional cooling systems and enhancing reliability. Equipped with a multiturn absolute encoder, it provides precise position feedback, essential for applications demanding high accuracy. The electrical connection is facilitated via a cable tail, and the motor includes an electrically released holding brake with a torque of 2.45 Nm, ensuring secure operation when stationary. With an IP54 protection rating, the motor is well-suited for industrial environments where dust and water

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resistance are necessary. Its plain shaft design without a sealing ring and keyway allows for straightforward mechanical integration. This motor is ideal for applications such as material handling, packaging machinery, and other automation systems requiring reliable and precise motion control.

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