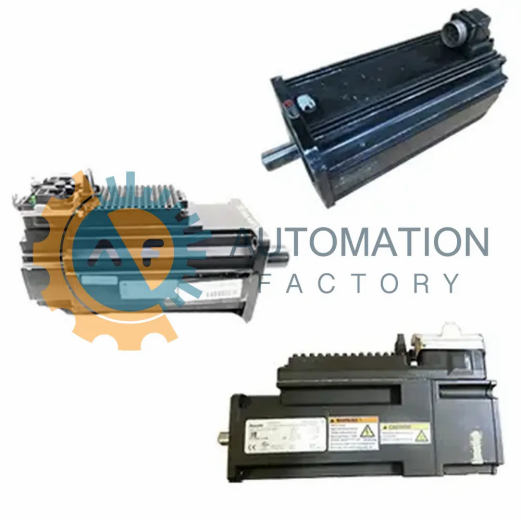
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

# KSM02.1B-041C-42N-M3-HG2-ET-NN-D7-NN-FW



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The **KSM02.1B-041C-42N-M3-HG2-ET-NN-D7-NN-FW** is a motor-integrated servo drive from Bosch Rexroth Indramat in the KSM Motor Integrated Servo Drives series. Drive electronics, a fieldbus interface, and a synchronous motor are contained within one housing, enabling decentralized axis control on conveyors, pick-and-place gantries, and small assembly stations. This integrated format reduces cabinet space and shortens feedback and power cabling. The unit supports precise position and speed regulation in compact industrial automation systems.

The drive accepts a bus supply of **DC 750 V** and routes control power and motor connections through a single **hybrid connector**, reducing the amount of field wiring. Cooling relies on **natural convection**, so the drive does not require an additional fan within the machine. Motion commands and diagnostic data travel over **Multi-Ethernet**, providing real-time communication with EtherNet/IP, PROFINET, or EtherCAT control systems without separate communication hardware. Position feedback is processed through the **Hiperface interface**, supporting closed-loop operation for standard-duty axes. The unit has the standard design option, Design Version 1, and Series 2 configuration. Its motor size is 041, its motor length is C, and its winding code is 42. The unit is supplied without onboard safety technology.

The integrated encoder produces **16 signal periods** per mechanical revolution and uses a **capacitive scanning method** that is resistant to interference from dust and oil. Its multi-turn counting function retains absolute position information across multiple shaft revolutions, allowing the controller to determine axis position without repeating a homing cycle after each startup. Rotor holding is provided by an **electrically released brake** that clamps the shaft

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when the brake is not energized. The brake coil operates from **DC 24 V** supplied through the drive system. A plain shaft transmits torque directly to a clamping coupling or compatible mechanical load. The shaft seal helps prevent lubricant migration and limits the entry of contaminants around the shaft opening.

## Specifications

| | | | | | |
|---|---|---|---|---|---|
| **Connection Type:** | Hybrid Connector | **Cooling Type:** | Natural convection | **Design Option:** | Standard |
| **Design Version:** | 1 | **Encoder Interface:** | Hiperface | **Encoder Resolution:** | 16 signal periods |
| **Encoder Technology:** | Capacitive | **Encoder Turn Type:** | Multi-turn absolute | **Holding Brake:** | Electrically Released |
| **Holding Brake Voltage:** | DC 24 V | **Master Communication Protocol:** | Multi-Ethernet | **Motor Length:** | C |
| **Motor Size:** | 041 | **Performance Level:** | Basic | **Product Type:** | Motor-Integrated Servo Drive |
| **Safety Technology:** | Without safety technology | **Series:** | 2 | **Shaft Seal:** | Yes |
| **Shaft Type:** | Plain shaft | **Supply Voltage:** | DC 750 V | **Winding Code:** | 42 |
| **Last Verified:** | 11/10/2026 12:43 AM | | | | |

## Contact Us


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