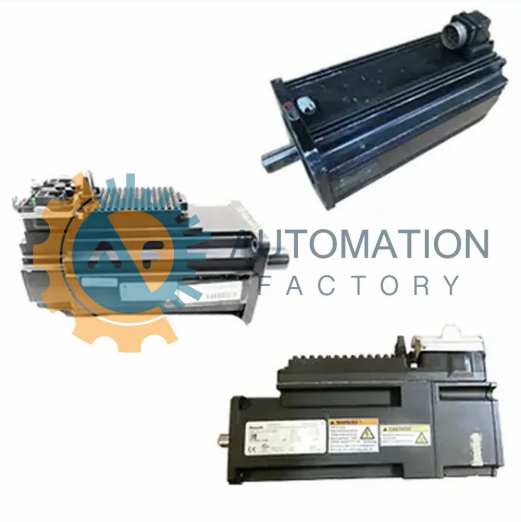
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

# KSM02.1B-041C-42N-M1-HG0-ET-S3-D7-TO-FW



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Bosch Rexroth Indramat supplies the **KSM02.1B-041C-42N-M1-HG0-ET-S3-D7-TO-FW** as part of the KSM Motor Integrated Servo Drives series. The unit uses internal variant 2 and combines power electronics with a permanent-magnet motor to simplify installation on packaging, assembly, and material-handling machines. It executes position or velocity commands directly on the machine frame, eliminating long motor cables and reducing heat inside the control panel. This integrated arrangement also reduces the amount of wiring required between the drive electronics and the motor.

The motor section has frame size 041 and length C, while winding code 42 identifies the copper fill used for moderate torque demands. Power is fed through a single **hybrid connector** that carries the DC bus, control, and feedback lines in one plug. Heat is removed by **natural convection**, so the housing must be mounted with unobstructed airflow. The drive accepts a bus voltage of **DC 750 V**, making it suitable for multi-axis installations connected to a common supply. Position feedback is generated through a **Hiperface feedback interface**. Its optical reader provides **128 signal periods** per revolution, supporting precise velocity and position control at low speeds.

Communication with the plant network is provided by an integrated **Multi-Ethernet output coupling**, and the interface supports the selected Multi-Ethernet protocol. Absolute rotor position is retained across power cycles by a **multi-turn absolute encoder** that works with the optical measuring head. Functional safety meets the **Safe Motion without SBC** category, enabling drive-based monitoring of speed and stop functions. Mechanical power is

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delivered through a **plain shaft with a shaft seal**, which helps protect the internal bearings from contaminants. The unit is supplied without a holding brake, so stationary loads require external clamping or continuous motor torque. The drive is design version 1, operates at the Basic performance level, and uses the hybrid wiring arrangement for its power and signal connections.

## Specifications

| | | | | | |
|---|---|---|---|---|---|
| **Connection Type:** | Hybrid Connector | **Cooling Type:** | Natural convection | **Design Option:** | Multi-Ethernet output coupling |
| **Design Version:** | 1 | **Encoder Interface:** | Hiperface | **Encoder Resolution:** | 128 signal periods |
| **Encoder Technology:** | Optical | **Encoder Turn Type:** | Multi-turn absolute | **Holding Brake:** | Without holding brake |
| **Master Communication Protocol:** | Multi-Ethernet | **Motor Length:** | C | **Motor Size:** | 041 |
| **Performance Level:** | Basic | **Product Type:** | Motor-Integrated Servo Drive | **Safety Technology:** | Safe Motion (without SBC) |
| **Series:** | 2 | **Shaft Seal:** | Yes | **Shaft Type:** | Plain shaft |
| **Supply Voltage:** | DC 750 V | **Winding Code:** | 42 | **Last Verified:** | 11/09/2026 11:56 AM |

## Contact Us


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