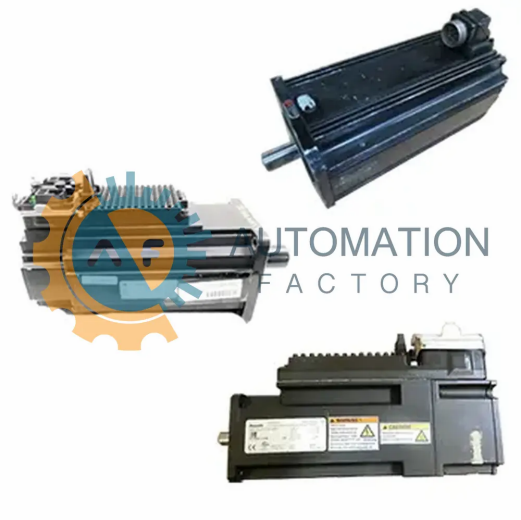
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

# KSM02.1B-041C-42N-M1-HP2-ET-SD-D7-ES-FW



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The **KSM02.1B-041C-42N-M1-HP2-ET-SD-D7-ES-FW** is a motor-integrated servo drive produced by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. By combining servo amplifier electronics with a 041-frame synchronous motor, the unit provides decentralized axis control for packaging machines, handling systems, and assembly lines. This integrated design reduces cabinet space and simplifies wiring while supporting precise position, speed, and torque regulation for industrial automation tasks.

A bus link rated at **DC 750 V** supplies the embedded inverter stage, and power and signal conductors are combined in a single **hybrid connector** to simplify installation. Heat is removed through **natural convection**, eliminating the need for fans or liquid cooling loops. Rotor position data are transmitted through a **Hiperface interface** connected to an optical encoder that provides **128 signal periods** per revolution. The encoder has multi-turn capability, allowing the drive to retain position information across multiple shaft revolutions. The motor uses winding code 42, while the C-length stack fits inside the size 041 housing and supports the Basic performance level for medium loads. The output shaft has a keyway and a shaft seal, and the drive is design version 1.

The **electrically released brake** engages when control power is lost and helps secure vertical axes during emergency stops. It operates with a supply of **DC 24 V**. The external master interface supports **Multi-Ethernet**, allowing the device to connect to EtherNet/IP, PROFINET, SERCOS III, or EtherCAT networks without changes to the installed communication hardware. Motion-related risk reduction is provided by the integrated **Safe Motion with SBC** package. This safety package monitors speed and position independently of the main processor, while Safe

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Brake Control manages the connected holding brake. The integrated network and safety functions reduce the need for separate communication and motion-safety modules in distributed machine layouts.

## Specifications

| | | | | | |
|---|---|---|---|---|---|
| **Connection Type:** | Hybrid Connector | **Cooling Type:** | Natural convection | **Design Option:** | External master communication Multi-Ethernet |
| **Design Version:** | 1 | **Encoder Interface:** | Hiperface | **Encoder Resolution:** | 128 signal periods |
| **Encoder Technology:** | Optical | **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:** | Safe Motion (with SBC) | **Series:** | 2 | **Shaft Seal:** | Yes |
| **Shaft Type:** | Shaft with keyway | **Supply Voltage:** | DC 750 V | **Winding Code:** | 42 |
| **Last Verified:** | 11/09/2026 11:25 PM | | | | |

## Contact Us


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