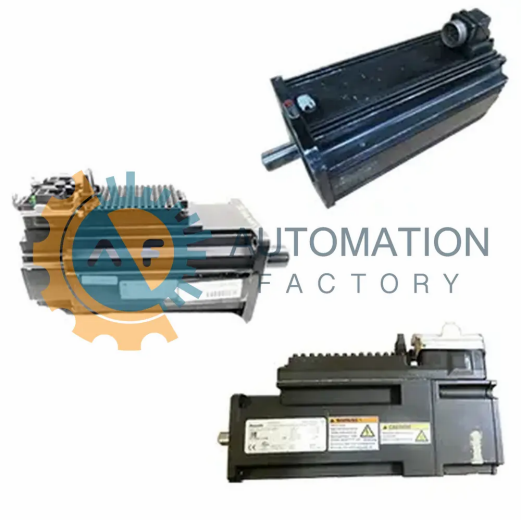
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

# KSM02.1B-041C-42N-M3-HP0-ET-NN-D7-TO-FW



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The **KSM02.1B-041C-42N-M3-HP0-ET-NN-D7-TO-FW** is a motor-integrated servo drive manufactured by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. It combines a motor, drive, and feedback electronics in a frame size of 041 with length code C. Design version 1 indicates its mechanical layout, while the basic performance level supports mid-range axis duties that require closed-loop precision. A Multi-Ethernet interface connects the unit to common industrial Ethernet masters without extra gateways, keeping control cabinets smaller and field wiring shorter in distributed automation systems.

The axis draws its DC bus energy from a **DC 750 V** supply, allowing multiple drives to share a single intermediate circuit for regenerative braking and common electromagnetic interference filtering. Power, Ethernet signals, and protective earth connections pass through a single **hybrid connector**, reducing the connector count and simplifying assembly. Heat created by the embedded power stage is removed through **natural convection**, so no fans or liquid cooling loops are required. Rotor position and speed data are returned over a **Hiperface** interface, enabling bidirectional parameter access and automatic retrieval of stored motor data by the controller. Position sensing inside the encoder uses a **capacitive scanning method** that resists magnetic interference and high-frequency vibration, helping maintain feedback accuracy during operation.

The encoder stores turn information in a **multi-turn absolute format**, so the axis reports its mechanical angle after power interruptions. Mechanical output is delivered through a **shaft with a keyway**, providing positive torque transmission to pulleys or couplings. An integrated shaft seal protects the internal bearings from splashing liquids

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and contaminants. The stator uses winding code **42**, matching the magnetic design to the drive's current limits for balanced thermal loading. The module is supplied **without a holding brake**, so applications that need static load retention must use external clamping or motor torque. The unit does not include integrated safety technology, so external safety controls are required when the application needs them.

## Specifications

| | | | | | |
|---|---|---|---|---|---|
| **Connection Type:** | Hybrid Connector | **Cooling Type:** | Natural convection | **Design Option:** | Multi-Ethernet output coupling |
| **Design Version:** | 1 | **Encoder Interface:** | Hiperface | **Encoder Resolution:** | 16 signal periods |
| **Encoder Technology:** | Capacitive | **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:** | Without safety technology |
| **Series:** | 2 | **Shaft Seal:** | Yes | **Shaft Type:** | Shaft with keyway |
| **Supply Voltage:** | DC 750 V | **Winding Code:** | 42 | **Last Verified:** | 11/09/2026 10:53 AM |

## Contact Us


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