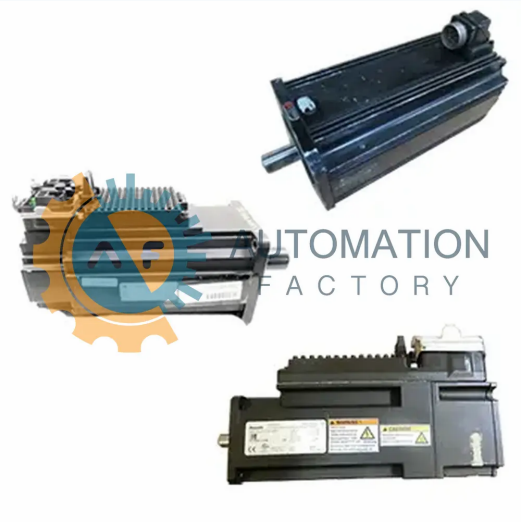
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

# KSM02.1B-061C-61N-M3-HP2-ET-NN-D7-TO-FW



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The **KSM02.1B-061C-61N-M3-HP2-ET-NN-D7-TO-FW** is a motor-integrated servo drive produced by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. It combines power electronics, control logic, and a synchronous motor in one enclosure, simplifying the installation of decentralized axes in industrial automation. The integrated design supplies precise torque and position control for conveyors, pick-and-place arms, and similar motion tasks while minimizing external wiring between the motor and drive.

Incoming DC power at **750 V** feeds the drive stage and is modulated for the three-phase stator windings. The motor has winding code 61, frame size 061, and frame length C. Heat is removed through **natural convection**, so external fans are unnecessary when the permitted ambient limits are observed. A Hiperface interface connects the control electronics to a feedback sensor that provides **16 signal periods** per mechanical revolution. Its **capacitive** design is resistant to interference from magnetic debris. Multi-turn absolute feedback retains position data after power cycles, allowing operation to resume without a new homing procedure. Axis clamping after power is removed is handled by an electrically released brake supplied with **24 V DC**. Mechanical energy is transmitted through a **shaft with a keyway**, providing positive engagement with pulleys or rigid couplings.

For field wiring, the motor-integrated design provides a **hybrid connector** that carries DC power, feedback, and brake conductors through a single keyed plug. Motion commands and diagnostic data are exchanged over **Multi-Ethernet**. A matching output port allows additional axes to be connected in a daisy chain. The unit operates at the **Basic performance level**, which is suitable for moderate-duty positioning lines. A shaft seal limits the entry of

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contaminants along the rotating interface. The product is design version 1 and belongs to series 2.

## 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:** | Electrically Released |
| **Holding Brake Voltage:** | DC 24 V | **Master Communication Protocol:** | Multi-Ethernet | **Motor Length:** | C |
| **Motor Size:** | 061 | **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:** | 61 |
| **Last Verified:** | 11/09/2026 5:45 PM | | | | |

## Contact Us


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