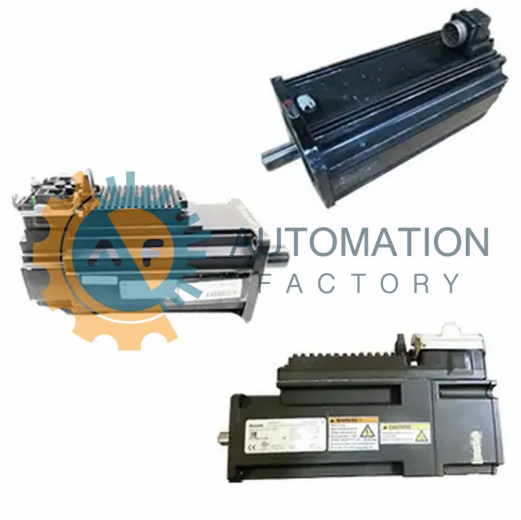
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

# KSM02.1B-061C-35N-S1-HP0-ET-L3-D7-NN-FW



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The **KSM02.1B-061C-35N-S1-HP0-ET-L3-D7-NN-FW** is a motor-integrated servo drive produced by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. By integrating power electronics, feedback, and a synchronous motor in one housing, it streamlines installation on decentralized machine axes. Within automated packaging, material-handling, or assembly stations, the drive supplies motion, feedback, and network connectivity without a separate cabinet inverter, reducing wiring and panel space.

This unit operates from a DC link of **DC 750 V**, so it connects directly to the shared intermediate circuit of Rexroth multi-axis systems. Heat is removed through **natural convection**, eliminating the need for fans or liquid lines. Power, signal, and safety conductors pass through a single **hybrid connector**, simplifying cable routing. Rotor position and velocity are measured with a **Hiperface** optical encoder that delivers **128 signal periods** per revolution, enabling precise electrical commutation at low speeds. The encoder is single-turn and aligns with the drive's basic performance level. The internal electronics use design version 1, while the motor has the standard mechanical option and winding code 35.

For controller integration, the module supports **Multi-Ethernet**, allowing operation with Sercos III, EtherNet/IP, PROFINET, or EtherCAT without hardware changes. Functional safety is provided by **Safe Torque Off (STO)**, which disables the motor power stages when triggered by an external circuit. Mechanical power is transferred through a **shaft with a keyway**, and an axial shaft seal protects the internal bearings from coolant or dust. The motor has a frame size of **061** and a frame length of C, providing a compact housing for decentralized installation. The assembly

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is supplied without a holding brake, so applications that require the load to remain stationary must use static friction or an external locking mechanism. This brake arrangement is suitable for horizontal axes and other installations where the load cannot move after motor torque is removed.

## Specifications

| | | | | | |
|---|---|---|---|---|---|
| **Connection Type:** | Hybrid Connector | **Cooling Type:** | Natural convection | **Design Option:** | Standard |
| **Design Version:** | 1 | **Encoder Interface:** | Hiperface | **Encoder Resolution:** | 128 signal periods |
| **Encoder Technology:** | Optical | **Encoder Turn Type:** | Single-turn | **Holding Brake:** | Without holding brake |
| **Master Communication Protocol:** | Multi-Ethernet | **Motor Length:** | C | **Motor Size:** | 061 |
| **Performance Level:** | Basic | **Product Type:** | Motor-Integrated Servo Drive | **Safety Technology:** | Safe Torque Off (STO) |
| **Series:** | 2 | **Shaft Seal:** | Yes | **Shaft Type:** | Shaft with keyway |
| **Supply Voltage:** | DC 750 V | **Winding Code:** | 35 | **Last Verified:** | 11/10/2026 10:38 AM |

## Contact Us


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