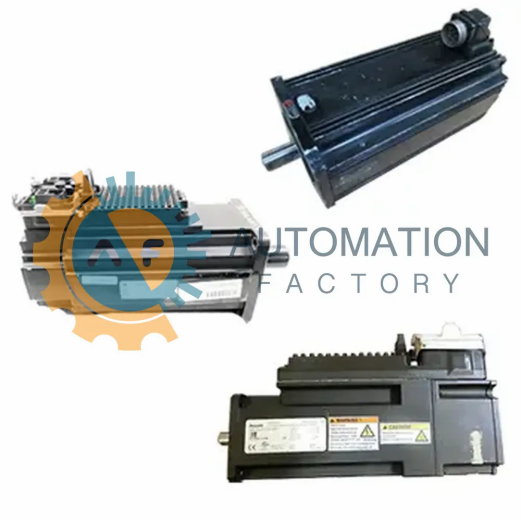
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

# KSM02.1B-071C-24N-M1-HG0-ET-L3-D7-NN-FW



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The **KSM02.1B-071C-24N-M1-HG0-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 combining a permanent-magnet servo motor with drive electronics in one housing, it simplifies wiring and reduces the required cabinet space in distributed automation systems. The device regulates torque and position for coordinated motion axes in packaging, material-handling, and assembly equipment. Its integrated design places power conversion and motor control close to the driven axis, reducing the length and complexity of connections to a central control cabinet.

The power stage operates from a **750 V DC bus**, while winding code 24 identifies the stator winding used with this bus level. Cooling relies on **natural convection**, eliminating the need for fans or liquid-cooling circuits. Power, feedback, and the auxiliary 24 V supply are routed through a single **hybrid connector**, which reduces the number of separate cable connections. Rotor position feedback uses a **Hiperface feedback interface** with optical scanning. The encoder generates **128 signal periods per revolution**, providing the resolution needed for velocity and position control. Its multi-turn capability retains absolute position information across multiple shaft revolutions, allowing position recovery after a power interruption. The unit has the Standard design option, design version 1, motor length C, and Series 2 electronics. A shaft seal limits the entry of moisture and contaminants during washdown service.

Control data and diagnostic information travel over **Multi-Ethernet communication**, allowing the drive to connect to EtherNet/IP, PROFINET, or EtherCAT networks. Drive disable is provided through **Safe Torque Off (STO)**, which

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prevents torque-producing power from reaching the motor without requiring external power contactors. The unit is supplied without a holding brake, so an external restraint is required when the load must remain stationary after motor torque is removed. Mechanical power is transmitted through a **plain shaft**, which supports connection to a zero-backlash clamping hub. The frame corresponds to **motor size 071** and is intended for installations using a 70 mm flange. Its Basic performance level provides nominal current and control bandwidth suitable for moderate dynamic motion tasks.

## 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:** | Multi-turn absolute | **Holding Brake:** | Without holding brake |
| **Master Communication Protocol:** | Multi-Ethernet | **Motor Length:** | C | **Motor Size:** | 071 |
| **Performance Level:** | Basic | **Product Type:** | Motor-Integrated Servo Drive | **Safety Technology:** | Safe Torque Off (STO) |
| **Series:** | 2 | **Shaft Seal:** | Yes | **Shaft Type:** | Plain shaft |
| **Supply Voltage:** | DC 750 V | **Winding Code:** | 24 | **Last Verified:** | 11/05/2026 9:28 PM |

## Contact Us


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