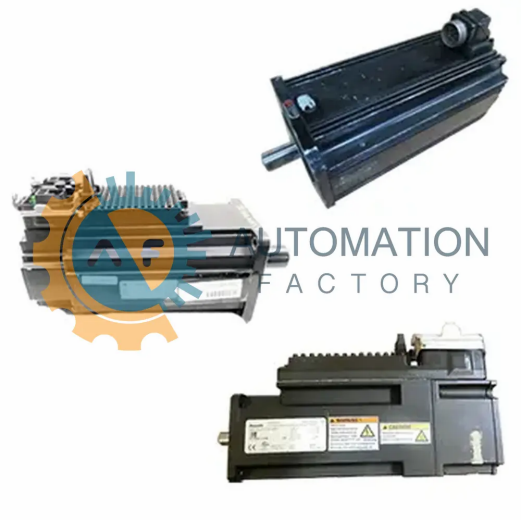
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

# KSM02.1B-041C-42N-M1-HP0-ET-L3-D7-NN-FW



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The **KSM02.1B-041C-42N-M1-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. It combines a brushless servo motor, power electronics, and a fieldbus interface in a single enclosure, allowing the unit to be mounted directly on moving axes without long motor cables. This configuration supports distributed motion control in conveyors, packaging stations, and robotic actuators where compact drives can shorten installation time and reduce heat inside the control cabinet.

The drive's power stage operates from a **750 V DC** link, allowing it to share a common high-energy bus with other axes and recycle braking energy internally. Power, signals, and network wiring are combined in a single **hybrid connector**, which reduces the number of plugs and minimizes wiring errors during service. Heat produced by the switching devices is released through **natural convection**, so no fan maintenance or external coolant is required at the intended load profile. Safety shutdown is handled by the integrated **Safe Torque Off (STO)** circuit, which disables motor power without opening the DC link. Real-time motion commands reach the unit through a **Multi-Ethernet interface** that supports EtherNet/IP, PROFINET, and EtherCAT, allowing the same unit to operate with different control architectures. The product uses design version 1, the standard design option, a basic performance level, and internal series 2.

Position feedback comes from an optical encoder that communicates over **Hiperface**. It delivers **128 signal periods** per revolution and stores angle data in a multi-turn absolute register for position retention when power is

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removed. The motor has a size of **041** and a length of **C**, which establish the frame outline and stack depth used for mounting. A keyed shaft transmits torque, while a shaft seal separates bearing grease from external contaminants. Winding code 42 identifies the electrical configuration used with this motor size. The unit is supplied without a holding brake, so vertical loads must be secured by an external brake or another suitable holding device.

## 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:** | 041 |
| **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:** | 42 | **Last Verified:** | 11/10/2026 9:11 AM |

## Contact Us


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### Shipping Options

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