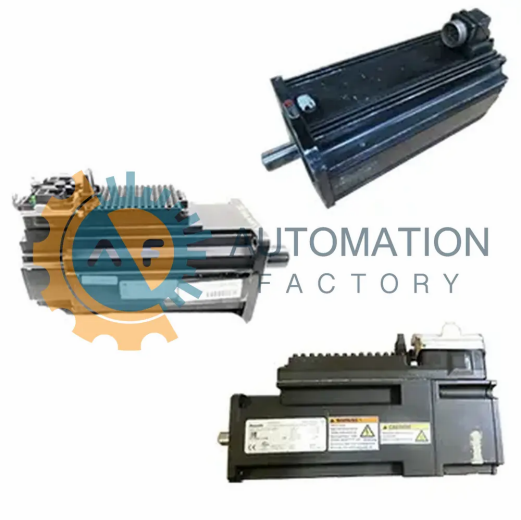
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-041C-42N-S3-HG0-ET-L3-D7-NN-FW



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The **KSM02.1B-041C-42N-S3-HG0-ET-L3-D7-NN-FW** is a motor-integrated servo drive from the Bosch Rexroth Indramat KSM Motor Integrated Servo Drives series. By combining a brushless servo motor with its drive electronics inside one housing, the unit delivers decentralized motion control for packaging lines, material-handling axes, and other distributed automation tasks. It reduces the need for separate control cabinets on the machine frame and simplifies wiring while still providing closed-loop velocity and position regulation.

A single **hybrid connector** carries power, safety, and network lines, reducing the number of installation points. The drive operates from a **750 V DC** bus, so it connects directly to common intermediate-circuit supplies on modular machines. Heat generated by the electronics is removed through **natural convection**, allowing cabinet-free mounting without fans. Position feedback uses **Hiperface**, which provides 16 signal periods per motor revolution and works with the capacitive sensor inside the encoder for accurate commutation. Integrated safety includes **Safe Torque Off (STO)**, which disables motor torque without disconnecting the main power supply. Frame size 041 and winding code 42 establish the electromagnetic configuration, while length C provides a midrange torque curve suited to general-purpose axes.

Control integration is handled by a **Multi-Ethernet** master port that can use EtherNet/IP, PROFINET, SERCOS III, or EtherCAT, allowing the interface to support several PLC platforms. The encoder's **capacitive measuring principle** tolerates dust or oil films better than optical disks, improving reliability in open machinery. A **plain shaft with a factory-installed shaft seal** supports belt or coupling transmission and limits ingress along the rotor. The unit has

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a **Basic performance level** and provides standard motion functions without option modules. It is supplied without a holding brake, so drive torque or an external mechanical device must provide static positioning.

Specifications

Connection Type:	Hybrid Connector	**Cooling Type:**	Natural convection	**Design Option:**	Standard
Design Version:	1	**Encoder Interface:**	Hiperface	**Encoder Resolution:**	16 signal periods
Encoder Technology:	Capacitive	**Encoder Turn Type:**	Single-turn	**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:**	Plain shaft
Supply Voltage:	DC 750 V	**Winding Code:**	42	**Last Verified:**	11/08/2026 5:48 PM

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