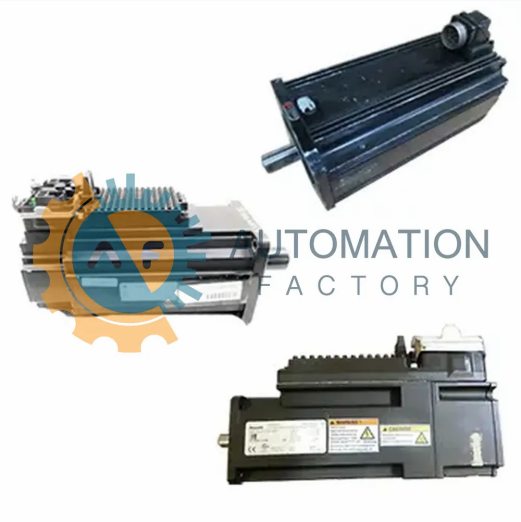
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

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



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The **KSM02.1B-041C-42N-S3-HG0-ET-NN-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 servo motor, power stage, and motion control electronics in one compact housing so that machine builders can distribute axes directly on the machine frame and limit control-cabinet wiring. In automated packaging, conveying, and small assembly stations, the unit supplies closed-loop torque and position control while reducing panel heat load and cable length.

This drive connects to the DC link through a **hybrid connector** that carries both power and SERCOS communication conductors in one molded plug. The power section is rated for a bus voltage of **750 VDC**; this high intermediate voltage supports longer cable runs without excessive current. Thermal management relies on **natural convection**, so no fans are present and the enclosure must be mounted with sufficient space for airflow. Rotor position data are transmitted through a **Hiperface** interface, and the feedback device generates **16 signal periods** per mechanical revolution for precise commutation. Size code 041 and motor length C establish the frame envelope and torque capability, while design version 1 and the Basic performance level indicate the standard feature set.

Motion commands are exchanged over **Multi-Ethernet**, allowing the axis to join EtherNet/IP, PROFINET, or EtherCAT networks without additional gateways. The feedback system uses a **single-turn capacitive** encoder, providing absolute shaft position within one revolution and high resistance to magnetic fields. The motor uses winding code **42**, which is matched to the integrated inverter. The plain shaft includes a seal that protects the internal bearings from oil and dust. The drive is supplied without a holding brake and uses a standard mechanical

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design. No additional safety technology is integrated, so required safety functions must be handled by the machine control system. The unit is Series 2 and is mechanically compatible with later KSM accessories.

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:**	Without safety technology
Series:	2	**Shaft Seal:**	Yes	**Shaft Type:**	Plain shaft
Supply Voltage:	DC 750 V	**Winding Code:**	42	**Last Verified:**	11/10/2026 9:55 AM

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