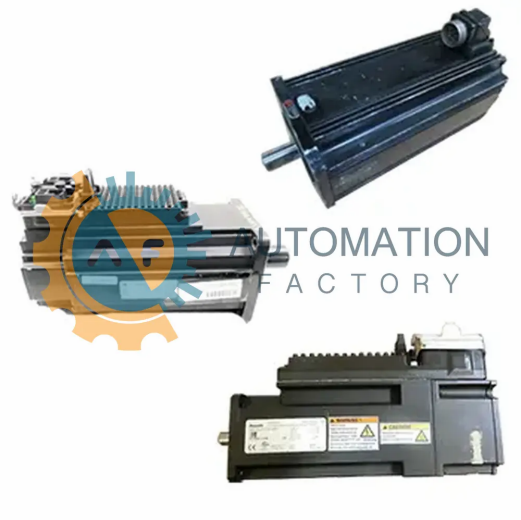
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-35N-S3-HG2-ET-NN-D7-NN-FW



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The **KSM02.1B-061C-35N-S3-HG2-ET-NN-D7-NN-FW** is produced by Bosch Rexroth Indramat as part of the KSM Motor Integrated Servo Drives series. By locating the inverter, power stage, and control logic directly on the motor housing, the unit forms a decentralized servo node that eliminates long motor cables and reduces the heat load within the cabinet. It suits indexing tables, pick-and-place modules, and light machining axes that need accurate motion with minimal wiring.

The unit operates from a **DC 750 V** bus shared among multiple axes. Heat is removed solely by **natural convection**, so no fans or liquid cooling plates are required. Frame size 061, motor length C, and winding code 35 establish the continuous torque class available at the shaft. The unit has a standard design, is Version 1, and belongs to Series 2. Position feedback is exchanged over the **Hiperface** channel. The sensor uses a **capacitive** operating principle and generates 16 signal periods per revolution for precise commutation. An internal **electrically released brake** prevents load drift whenever the bus voltage drops. The basic performance level is intended for medium-speed conveying and assembly tasks.

For field wiring, a single **hybrid connector** carries power, Ethernet, and I/O signals to the housing. Upstream controllers address the axis over the **Multi-Ethernet** interface, allowing the unit to connect to PROFINET, EtherNet/IP, or SERCOS networks as required. The drive transfers torque through a **plain shaft with a shaft seal**, which helps prevent grease or coolant from reaching the internal components. The brake coils operate at **DC 24 V**, allowing them to use the machine's auxiliary power supply. The single-turn encoder provides rotor position data

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within one mechanical revolution, while external controls provide any required motion supervision.

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:**	Electrically Released
Holding Brake Voltage:	DC 24 V	**Master Communication Protocol:**	Multi-Ethernet	**Motor Length:**	C
Motor Size:	061	**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:**	35
Last Verified:	11/09/2026 10:55 PM				

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