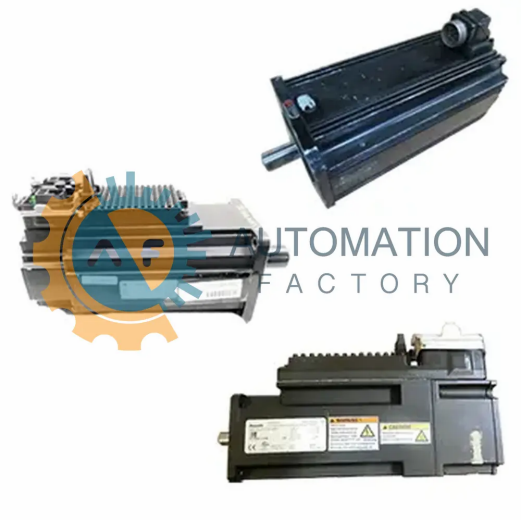
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-35N-S3-HG0-ET-NN-D7-NN-FW



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The **KSM02.1B-061C-35N-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. By combining a synchronous motor, power electronics, and a network interface inside one enclosure, the device removes the need for a separate cabinet-mounted inverter. It is used in industrial automation where compact, decentralized positioning of indexing tables, format axes, or small gantries can reduce wiring length and the heat load inside the control panel.

For thermal management, the drive relies on **natural convection**; the absence of fans eliminates fan maintenance and allows vertical mounting without dedicated airflow channels. A shared **DC 750 V** bus supplies the inverter stage, allowing regenerated energy to be routed to other axes on the line. Power, control, and feedback conductors converge in a single **hybrid connector**, simplifying installation and service access. Command and diagnostic traffic is exchanged through **Multi-Ethernet**, permitting direct connection to EtherNet/IP, PROFINET, or EtherCAT masters without protocol converters. Absolute rotor position is delivered over a **Hiperface** link, enabling drive-integrated commutation and precise position control immediately after power is applied.

The encoder uses a **capacitive scanning principle** that resists interference from dust and oil, while its single-turn track provides **16 signal periods** for interpolation inside the controller. The motor has a frame size of **061** and a length code of C, balancing continuous torque with a compact footprint for machines that place axes directly on moving carriages. A **plain shaft** transmits torque to pulleys or gearheads, and an internal seal helps block splash ingress. The motor does not include a holding brake, which reduces mass during dynamic motion cycles. The unit

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has Design Version 1 and Winding Code 35. It belongs to Series 2 and has a Basic performance level without integrated safety technology.

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:**	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 1:02 PM

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