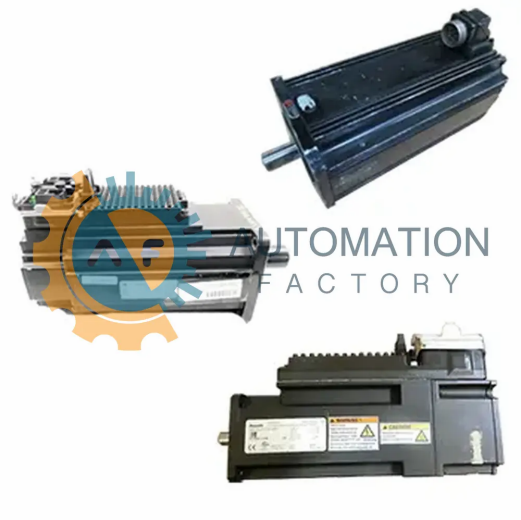
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-61N-M1-HG0-ET-NN-D7-NN-FW



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The **KSM02.1B-061C-61N-M1-HG0-ET-NN-D7-NN-FW** is a motor-integrated servo drive manufactured by Bosch Rexroth Indramat for the decentralized KSM Motor Integrated Servo Drives series. In a single enclosure, it combines a synchronous motor, encoder, drive electronics, and fieldbus interface, enabling mounting directly on the machine frame rather than inside a control cabinet. The unit serves as a compact axis for industrial automation, where it delivers position, speed, and torque control to conveyor segments, pick-and-place heads, and other motion modules that benefit from short cable runs and reduced panel heat load.

The drive uses a **hybrid connector** that carries power, logic, and network signals through one plug, simplifying installation and daisy-chain layouts. Thermal dissipation relies on **natural convection**; therefore, the housing must be mounted with unobstructed airflow rather than auxiliary fans. The internal DC link is rated for **750 V DC**, matching common three-phase rectified bus supplies in multi-axis machines. Position feedback is exchanged through a **Hiperface interface**, and the optical encoder provides **128 signal periods** per mechanical revolution. This resolution gives the controller fine incremental interpolation for smooth velocity regulation and accurate motion tracking.

The encoder provides **multi-turn absolute position tracking**, eliminating the need for homing after a power cycle. Communication with the master controller is handled through **Multi-Ethernet**, allowing EtherNet/IP, PROFINET, or EtherCAT to be selected for the control network. Mechanical power is transmitted through a **plain shaft**, and a shaft seal limits ingress at the output flange. Winding code **61** is matched to the 061 frame size and

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the length C stator, providing the required electromagnetic characteristics for this motor configuration. The unit does not include a holding brake, so stationary load retention must be supplied by drive torque or an external mechanism when required. Design version 1 maintains dimensional compatibility with other KSM02 devices.

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:**	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:**	61	**Last Verified:**	11/09/2026 10:11 AM

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