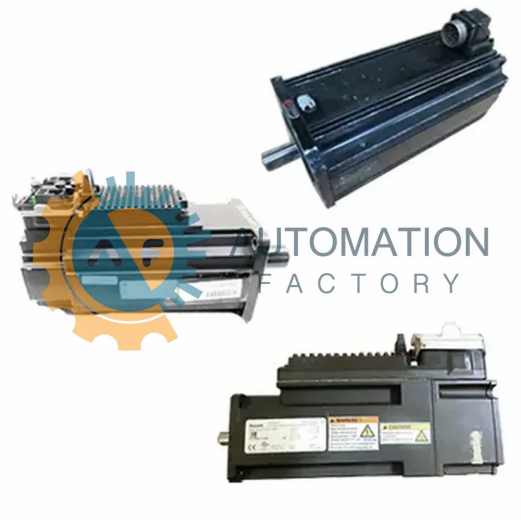
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

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



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The **KSM02.1B-061C-61N-M1-HG0-ET-SD-D7-TO-FW** is a motor-integrated servo drive produced by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. It consolidates the control electronics and motor in a single housing so machine builders can shorten cabinet cable runs and reduce wiring points. Within the platform, it has size 061 and a C-length stack, and it is issued as design version 1 with a basic performance level. The device belongs to Series 2 of the KSM line and provides axis positioning and velocity control in distributed automation architectures.

This drive draws power from a **750 V DC bus** and routes power and feedback through a single **hybrid connector**, minimizing cable bulk. Heat is removed through passive **natural convection**, so no dedicated fan is required. The **Multi-Ethernet output coupling** option supports the main communication interface, enabling deterministic data exchange over EtherNet/IP, PROFINET, and other Ethernet-based fieldbuses. Position and speed feedback are transmitted through a **Hiperface encoder link**. A shaft seal protects the internal bearings from contaminants. The unit is supplied without a holding brake, and its plain shaft transmits torque directly to the connected load.

Measurement accuracy is provided by an optical transducer that resolves the rotor angle into **128 signal periods** per revolution. The encoder stores position through a **multi-turn absolute counter**, retaining the measured shaft position across multiple revolutions. Integrated **Safe Motion with SBC** supports certified stopping and motion-monitoring functions without separate safety hardware. The motor uses **winding code 61**, and the winding is matched to the DC bus voltage for consistent torque production. The encoder's optical operating principle reduces

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position jitter at low speeds. Distributed mounting places the drive electronics near the controlled axis, which reduces heat accumulation inside the main cabinet on multi-axis machines.

Specifications

Connection Type:	Hybrid Connector	**Cooling Type:**	Natural convection	**Design Option:**	Multi-Ethernet output coupling
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:**	Safe Motion (with SBC)
Series:	2	**Shaft Seal:**	Yes	**Shaft Type:**	Plain shaft
Supply Voltage:	DC 750 V	**Winding Code:**	61	**Last Verified:**	11/09/2026 1:40 PM

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