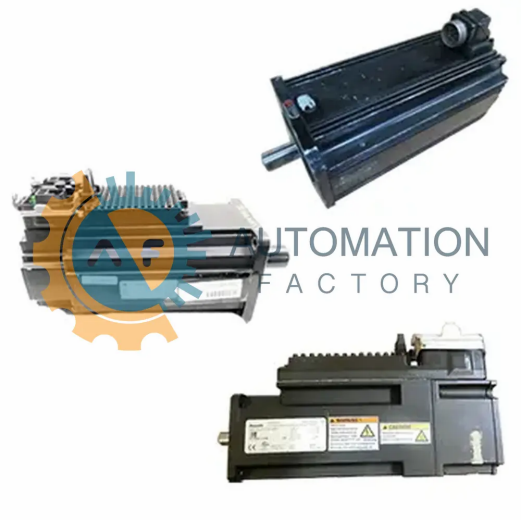
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

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



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The **KSM02.1B-061C-61N-M1-HG0-ET-SD-D7-NN-FW** is a motor-integrated servo drive manufactured by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. It combines the motor, encoder, and power electronics in one housing. This arrangement simplifies installation on machine axes that require compact, decentralized motion control for packaging, handling, or assembly applications.

The drive receives power from a regulated **DC 750 V** bus, which supports energy distribution among compatible machine axes. Heat is removed through **natural convection**, eliminating the need for forced-air cooling components. The integrated **Safe Motion with SBC** system supports controlled stopping and safely limited speed functions. Network traffic is routed through the **Multi-Ethernet interface**, allowing connection to EtherNet/IP, PROFINET, or EtherCAT networks without separate option cards. Position feedback comes from an optical encoder that provides **128 signal periods per revolution** for accurate motion tracking. The unit has a Basic performance level and uses winding code 61 for the electromagnetic arrangement of the stator. Its processing capabilities support real-time control for coordinated machine movements and decentralized axis operation.

Field wiring enters through a **hybrid connector** that carries power, control signals, and safety I/O in one plug, reducing the number of separate cable runs. The encoder communicates through **Hiperface** and delivers absolute position information to the control electronics. Optical scanning and a multi-turn absolute track preserve position information across power cycles, allowing the machine controller to recover the axis position after startup. Mechanical energy is transmitted through a **plain shaft**, and an internal shaft seal limits the entry of oil and dust

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around the shaft opening. The motor has a frame size of **061** and a frame length of C, providing a compact housing for decentralized installation. It is supplied without a holding brake, so stationary loads must be secured through external braking or mechanical restraint. The unit uses the standard design option for this model configuration.

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:**	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 5:28 AM

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