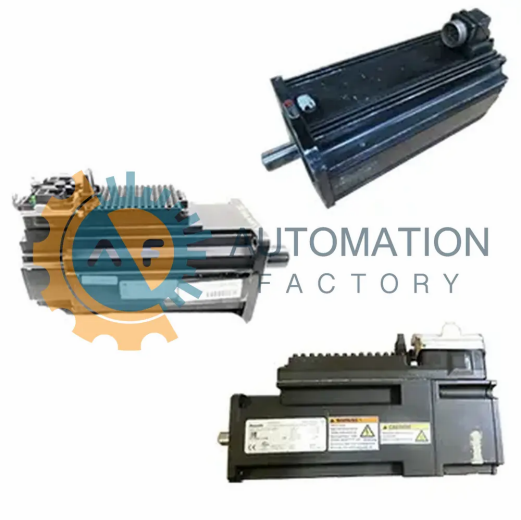
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-61N-S1-HG0-ET-L3-D7-NN-FW



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The **KSM02.1B-061C-61N-S1-HG0-ET-L3-D7-NN-FW** is a motor-integrated servo drive from the Bosch Rexroth Indramat KSM Motor Integrated Servo Drives series. By combining a brushless servo motor, power electronics, and feedback devices in one housing, the unit simplifies machine wiring and saves cabinet space in distributed motion systems. It is intended for packaging axes, material-handling gantries, and assembly stations where decentralized control reduces cable runs and improves electromagnetic compatibility. This model has design version 1 and a basic performance level.

Wiring is reduced to a single **hybrid connector**, which carries DC power, Ethernet communication, and control signals to the drive. The DC link accepts up to **750 V DC**, allowing several drives to share a common supply without individual rectifiers. Heat is removed by **natural convection**, so no fans are required. Real-time motion commands travel over **Multi-Ethernet**, allowing the axis to join EtherNet/IP, PROFINET, or EtherCAT networks without additional option cards. For personnel protection during service or emergency stops, the power stage includes **Safe Torque Off (STO)**, which prevents the motor from producing torque when the safety input is de-energized.

Position feedback is provided by a built-in **Hiperface optical encoder**. This sensor delivers **128 signal periods** per mechanical revolution, which the drive interpolates to generate high-resolution position data for smooth velocity control. The optical scanning method provides strong immunity to magnetic stray fields. The motor is supplied **without a holding brake**, so the rotor remains free when power is removed, making the drive suitable for horizontal axes that rely on servo torque rather than mechanical clamping. A **plain shaft with an integral shaft**

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seal permits direct coupling to gearheads or pulleys while helping protect the motor compartment from contaminants.

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:**	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:**	Safe Torque Off (STO)
Series:	2	**Shaft Seal:**	Yes	**Shaft Type:**	Plain shaft
Supply Voltage:	DC 750 V	**Winding Code:**	61	**Last Verified:**	11/09/2026 4:40 AM

Contact Us

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