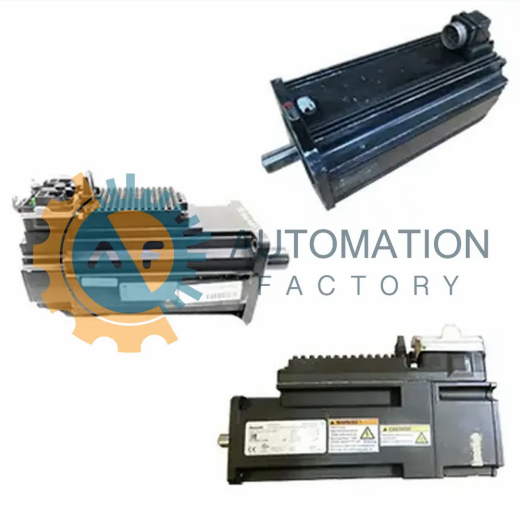
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-61N-S3-HG0-ET-L3-D7-NN-FW



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The **KSM02.1B-061C-61N-S3-HG0-ET-L3-D7-NN-FW** belongs to the KSM Motor Integrated Servo Drives series from Bosch Rexroth Indramat. As a motor-integrated servo drive, this unit combines a permanent-magnet motor and a drive controller in one housing, allowing shorter cable runs and reducing the required cabinet space. It is used on distributed axes that require precise positioning and coordinated motion in packaging, printing, and light assembly lines.

The drive accepts a supply of **DC 750 V**, which is the intermediate-circuit voltage provided by a central power supply module, so no onboard rectifier is needed. Thermal energy is removed through **natural convection**, so mounting must allow unobstructed airflow without auxiliary fans. Power, feedback, and network wiring are consolidated in a single **hybrid connector**, simplifying installation and limiting ingress points. Position feedback is transmitted over the **Hiperface** interface, enabling absolute position detection after power cycling and high-resolution speed control. Real-time axis coordination is handled through the integrated **Multi-Ethernet** port, which can be configured for EtherNet/IP, PROFINET, or EtherCAT according to the controller environment.

When the control board detects a fault or receives an emergency-stop command, the drive can disable torque through the certified **Safe Torque Off (STO)** circuit without disconnecting the main power supply. Rotor position sensing uses a **capacitive single-turn encoder** with 16 signal periods, eliminating optical components that can degrade in dusty areas. The frame size is coded as **061**, and the motor has a C length, providing a balance between continuous torque and housing size. The plain shaft includes a shaft seal for splash protection and is supplied

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without a holding brake, so static load retention must be provided by the mechanism or external clamps.

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:**	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 7:01 AM

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