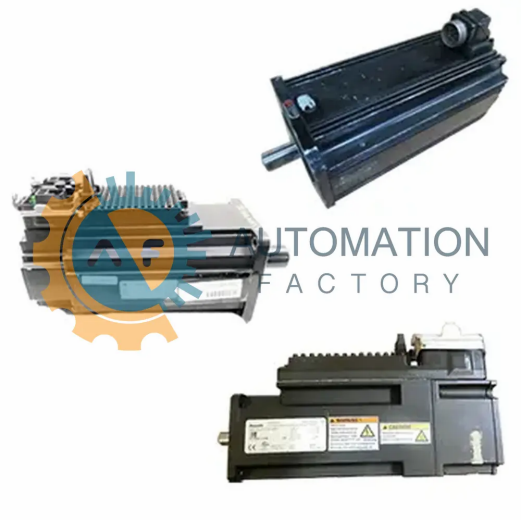
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-61N-S1-HP2-ET-L3-D7-NN-FW



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The **KSM02.1B-061C-61N-S1-HP2-ET-L3-D7-NN-FW** is manufactured by Bosch Rexroth Indramat as part of the KSM Motor Integrated Servo Drives series. This compact unit combines a motor, drive electronics, and feedback hardware in one housing for decentralized positioning tasks on packaging lines, assembly stations, and material-handling axes. By integrating power electronics directly into the motor frame, it reduces cabinet wiring and shortens signal paths, supporting faster installation and easier scalability in distributed industrial automation layouts.

The drive is supplied from a DC bus at **DC 750 V**, so it connects directly to a common high-voltage link in multi-axis machines. Heat produced by the electronics is removed through **natural convection**, eliminating the need for forced air or liquid cooling in sealed enclosures. All power, network, and brake conductors are routed through a single **hybrid connector**, which simplifies cable management and reduces the connector count. Commands and diagnostic data reach the unit through **Multi-Ethernet**, allowing EtherNet/IP, PROFINET, or EtherCAT to be selected in software without changing the equipment. Rotor position is digitized by an optical encoder that outputs **128 signal periods** per revolution, giving the controller precise incremental data for smooth velocity control. These electrical and feedback features are provided in the standard design option and correspond to design version 1 of the series.

Functional safety is provided by **Safe Torque Off (STO)**, which prevents the drive from generating torque without disconnecting the power wiring. Load holding on vertical axes is handled by an **electrically released brake** energized at **DC 24 V**. The optical encoder uses a Hiperface interface and reports the absolute rotor angle in a

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single-turn format. The **motor size is 061**, and the frame has length C. The shaft includes a keyway for positive torque transfer and a shaft seal that helps protect the internal components from contaminants. The motor uses winding code 61, has the Basic performance level, and belongs to Series 2 of the platform.

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:**	Electrically Released
Holding Brake Voltage:	DC 24 V	**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:	Shaft with keyway	**Supply Voltage:**	DC 750 V	**Winding Code:**	61
Last Verified:	11/07/2026 4:32 AM				

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