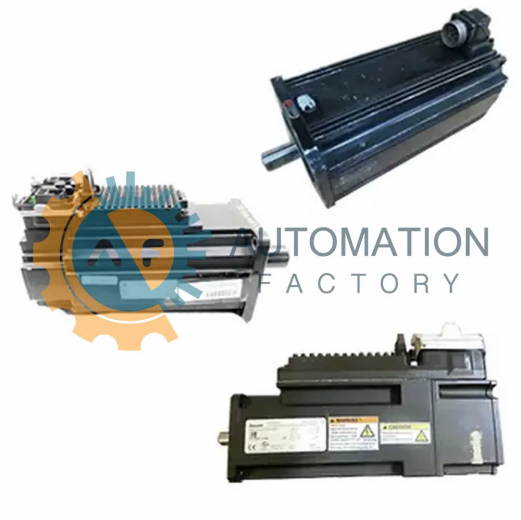
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-61N-S1-HP0-ET-L3-D7-NN-FW



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The **KSM02.1B-061C-61N-S1-HP0-ET-L3-D7-NN-FW** is a motor-integrated servo drive produced by Bosch Rexroth Indramat within the KSM Motor Integrated Servo Drives series. By combining the motor, drive electronics, and network interface in a distributed housing, the device reduces the required lengths of encoder, power, and communication cables. It is used to position tooling, conveyors, and handling axes in assembly cells where cabinet space is limited and wiring must be minimized.

The drive accepts a bus voltage of **DC 750 V**, which provides the energy reserve needed for rapid speed changes in moderate-inertia loads. Motion commands reach the integrated controller through the **Multi-Ethernet** master port, allowing the unit to join EtherNet/IP, PROFINET, or EtherCAT networks without additional option cards. Rotor position is monitored by a **Hiperface** optical encoder that generates 128 signal periods on a single-turn track for precise absolute feedback. The certified **Safe Torque Off (STO)** input removes drive power without opening the DC link. Heat is dissipated by **natural convection**, eliminating the need for fans and reducing fan-related service requirements in sealed machines. The motor has winding code 61 and length C. The electronics use design version 1, while the performance level is Basic and the design option is Standard. The unit belongs to Series 2.

Power, signal, and DC-link conductors share a **hybrid connector**, so installation requires only one cable run between the drive and the associated system components. The mechanical interface uses the **061 frame size**, providing a compact housing for decentralized axis arrangements. Torque is transferred through **a shaft with a keyway**, which provides positive engagement with a compatible coupling or driven component. A shaft seal helps

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prevent contaminants from reaching the front bearing during operation. The unit is supplied with **no holding brake**, so vertical axes must use an external locking device to prevent movement when drive torque is unavailable.

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:**	Shaft with keyway
Supply Voltage:	DC 750 V	**Winding Code:**	61	**Last Verified:**	11/07/2026 2:08 PM

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