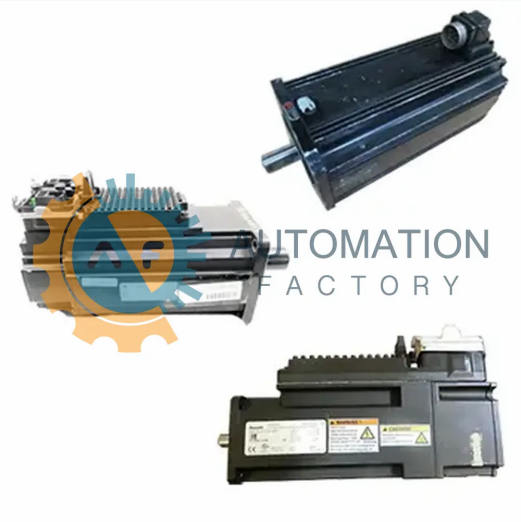
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-61N-S1-HG2-ET-S3-D7-NN-FW



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The **KSM02.1B-061C-61N-S1-HG2-ET-S3-D7-NN-FW** is a motor-integrated servo drive developed by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. As an all-in-one unit, it combines power electronics, feedback, and a 061-frame synchronous motor in one housing, providing decentralized axis control for machinery that requires minimal cabinet wiring. Within its C-length stator stack, the drive executes motion profiles directly at the axis. This arrangement is suitable for packaging, assembly, and material-handling stations that require precise position and torque regulation through a distributed control architecture.

Power is supplied from a bus rated at **DC 750 V**, so the axis can connect to a common converter without requiring its own rectifier stage. Signals and power share a single **hybrid connector**, reducing the number of installation points and maintaining shield continuity. Heat produced by the inverter is removed through **natural convection**. No fans are included, so the installation must provide enough airflow and clearance for passive heat dissipation. Network control is handled by a **Multi-Ethernet interface** that accepts Sercos III, EtherNet/IP, EtherCAT, and PROFINET commands. Rotor position data reach the drive electronics through a **Hiperface encoder interface**, which supports absolute position initialization after power-up. The unit follows design version 1, uses the standard mechanical option, and has a Basic performance level within Series 2. Its winding code is 61, which is suited to medium-torque applications.

The optical single-turn scanning system provides **128 signal periods** per revolution, giving the control loop precise rotor position information. Position holding after power removal is managed by an electrically released brake

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energized at **DC 24 V**. When voltage is removed, the spring mechanism engages the brake and holds the rotor, while the integrated shaft seal protects the bearing area from contaminants. Functional safety is provided by **Safe Motion without SBC**, allowing certified monitoring of velocity and position without an external relay module. Mechanical energy is transmitted through a **plain shaft**, which supports direct connection to a suitable clamping coupling. This shaft arrangement avoids the need for a keyway and keeps the output interface compact for installation within the 061-frame envelope.

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 Motion (without SBC)	**Series:**	2	**Shaft Seal:**	Yes
Shaft Type:	Plain shaft	**Supply Voltage:**	DC 750 V	**Winding Code:**	61
Last Verified:	11/08/2026 1:05 PM				

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