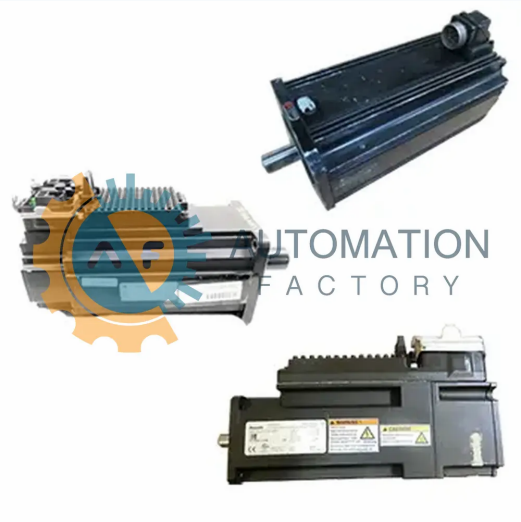
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-61N-M3-HG2-ET-L3-D7-TO-FW



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The **KSM02.1B-061C-61N-M3-HG2-ET-L3-D7-TO-FW** is a motor-integrated servo drive manufactured by Bosch Rexroth Indramat for decentralized installation on machine frames. It belongs to the second generation of the KSM Motor Integrated Servo Drives series and combines drive electronics with a 061-frame synchronous motor to conserve control cabinet space. In industrial automation systems, it provides closed-loop positioning directly at the axis, permitting shorter cable runs and faster production-line reconfiguration.

The drive accepts bus power at **DC 750 V**, and thermal energy leaves the housing through **natural convection**, removing the need for fans or liquid cooling circuits. Position feedback is transmitted over a **Hiperface** interface connected to a capacitive encoder with a resolution of **16 signal periods**. The multi-turn absolute encoder retains position information when system power is removed, allowing the drive to identify the axis position after power is restored. Functional safety is provided by **Safe Torque Off (STO)**, which disables torque-producing pulses while keeping the control logic active. Winding code 61 provides the torque and speed characteristics used by the drive's basic performance level.

The plain shaft includes a seal and supports direct coupling to precision gearheads without additional shaft adapters. An **electrically released holding brake** clamps the shaft when its power supply is removed, helping prevent unintended movement while the axis is stationary. The brake operates from **DC 24 V** during normal motion. All field conductors terminate in a single **hybrid connector** that carries power, communication signals, and brake wiring through one connection point. Real-time communication with PLCs uses software-selectable **Multi-Ethernet**

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protocols, and the L3 option provides the associated output coupling. The motor has length code C, while the unit has design version 1 and a Basic performance level.

Specifications

Connection Type:	Hybrid Connector	**Cooling Type:**	Natural convection	**Design Option:**	Multi-Ethernet output coupling
Design Version:	1	**Encoder Interface:**	Hiperface	**Encoder Resolution:**	16 signal periods
Encoder Technology:	Capacitive	**Encoder Turn Type:**	Multi-turn absolute	**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:	Plain shaft	**Supply Voltage:**	DC 750 V	**Winding Code:**	61
Last Verified:	11/07/2026 9:46 AM				

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