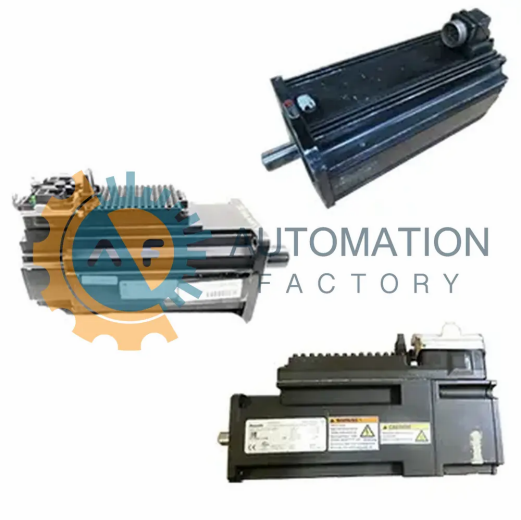
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-61N-M1-HG2-ET-L3-D7-NN-FW



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The **KSM02.1B-061C-61N-M1-HG2-ET-L3-D7-NN-FW** is a motor-integrated servo drive produced by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. By combining drive electronics, feedback, and a 061-frame permanent-magnet motor in a single housing, it streamlines installation on distributed machine axes located far from control cabinets. The unit delivers closed-loop positioning and speed control for packaging stations, pick-and-place robots, and conveyor gantries. Its integrated design reduces the amount of equipment and wiring required around each controlled axis.

The drive connects to a bus rated at **750 V DC**, allowing it to share a common supply with other regenerative axes on the machine. Power, brake conductors, and fieldbus signals are routed through a **hybrid connector**, eliminating the need for separate feedback and I/O cables. Heat is removed by **natural convection**, and the absence of cooling fans simplifies maintenance in environments containing airborne particles. Position feedback is generated by a **Hiperface optical encoder** that provides absolute multi-turn position data. Interpolation provides **128 signal periods per mechanical revolution**, supporting fine motion profiles during synchronized operation. The encoder operates with winding code 61 and motor length C to match the torque and inertia requirements of basic-performance applications.

Network integration is handled by **Multi-Ethernet hardware** that can be configured for EtherNet/IP, PROFINET, or EtherCAT without additional option cards. Functional safety is provided through **Safe Torque Off (STO)**, which removes torque-producing power while allowing fieldbus communication to remain active. Vertical loads are held by

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an **electrically released brake** that clamps when control power is lost. The brake coil operates from **24 V DC**. A plain shaft with a factory-installed seal helps prevent lubricant migration and protects the motor interface from contamination. The standard mechanical design is version 1 and supports KSM mounting flanges used with series 2 products.

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:**	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:	11/08/2026 8:54 AM				

Contact Us

1620 Old Apex Road, Cary, NC 27513, USA

Toll Free: 1-888-551-3082

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