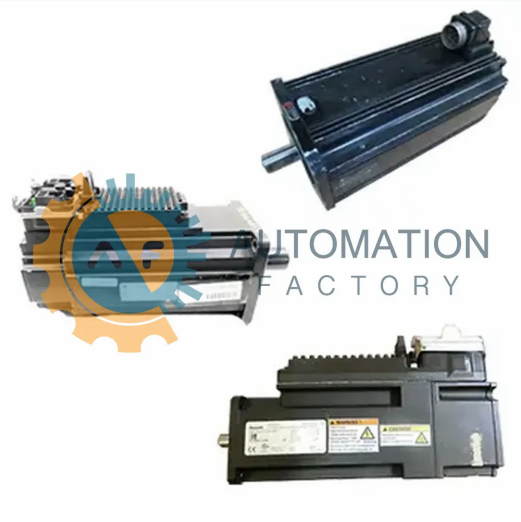
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-61N-M3-HP2-ET-L3-D7-TO-FW



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The **KSM02.1B-061C-61N-M3-HP2-ET-L3-D7-TO-FW** is a motor-integrated servo drive produced by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. By combining drive electronics with a 061 frame-size synchronous motor, the unit reduces the need for separate cabinet-mounted drive components and shortens feedback wiring in factory automation systems. It executes axis-positioning commands directly on the machine and supports distributed installation through its communication and output-coupling design. This arrangement is suitable for packaging equipment, handling systems, and other machines that use coordinated decentralized axes.

The power stage is supplied by a **DC 750 V bus**, allowing the unit to share a common direct-current link with other compatible Indramat inverters. Power, feedback, and I/O lines converge in a single **hybrid connector**, which simplifies cable routing and field installation. Thermal losses are removed solely by **natural convection**, so the required mounting clearances must be maintained to provide adequate airflow around the housing. Rotor position reaches the drive through a **Hiperface interface**, and the capacitive sensor provides **16 signal periods per mechanical revolution** for interpolation by the controller. The encoder uses capacitive sensing and stores multi-turn absolute position, allowing the controller to retain axis-position information across multiple shaft revolutions. The motor uses winding code 61 to provide the electrical characteristics required by the power stage and commutation controls of the KSM Series 2 platform.

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The holding mechanism is an **electrically released brake** that engages whenever the 24 V control line is removed. Its coil operates from a DC 24 V supply, allowing the brake to secure the shaft when control power is unavailable. Functional safety is provided by **Safe Torque Off (STO)**, which prevents torque-producing energy from reaching the motor without applying the holding brake. Mechanical output is delivered through a **shaft with a keyway**, providing positive engagement with a compatible coupling or gearbox. A shaft seal limits the entry of contaminants around the output interface. Control data are transferred over **Multi-Ethernet**, which supports communication protocols such as EtherNet/IP, PROFINET, and SERCOS III. The unit has design version 1, a basic performance level, and motor length C.

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:	Shaft with keyway	**Supply Voltage:**	DC 750 V	**Winding Code:**	61
Last Verified:	11/08/2026 5:42 AM				

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