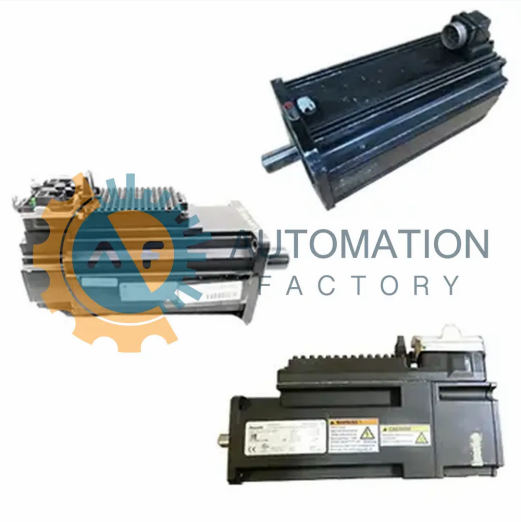
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-61N-M3-HP0-ET-L3-D7-TO-FW



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The **KSM02.1B-061C-61N-M3-HP0-ET-L3-D7-TO-FW** is a motor-integrated servo drive built by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. As a Series 2, Design Version 1 unit, it combines a 061-frame synchronous motor with drive electronics to provide decentralized motion control on compact machines. Mounting the unit close to the axis reduces the need for separate drive cabinets while shortening cable runs and installation time in industrial automation.

It is powered from a shared bus at **DC 750 V** and receives both power and signals through a single **hybrid connector**, so only one hybrid cable is required between the cabinet and the motor. Internal components are cooled by **natural convection**, and the absence of fans reduces maintenance requirements without compromising enclosure protection. Machine safety is supported by the integrated **Safe Torque Off (STO)** function, which removes drive power without requiring mechanical disconnection. The drive has a **Multi-Ethernet output coupling** that supports EtherNet/IP, PROFINET, or EtherCAT as the master communication protocol, allowing the unit to operate with various control platforms. Performance is classified as Basic, and winding code 61 is paired with the C-length stator for medium-speed duties.

Position feedback is provided by a **Hiperface** encoder that uses capacitive scanning and resolves rotor position over **16 signal periods**. The sensor is a **multi-turn absolute** encoder, so axis position is retained across power cycles without requiring a homing routine. Mechanical power is delivered through a **shaft with a keyway**, and a shaft seal helps limit the entry of contaminants. The assembly is supplied without a holding brake, making it

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suitable for horizontal axes that do not require static clamping. Loads that must remain fixed when power is removed require an external holding mechanism.

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:**	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:**	11/08/2026 7:51 PM

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