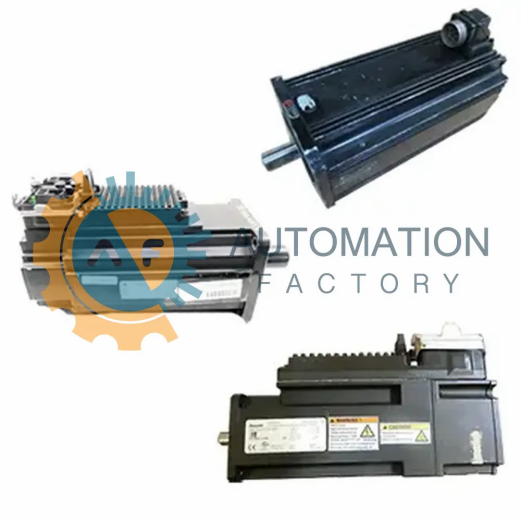
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-35N-M3-HP0-ET-L3-D7-TO-FW



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The **KSM02.1B-061C-35N-M3-HP0-ET-L3-D7-TO-FW** motor-integrated servo drive is produced by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. This device combines a permanent-magnet servo motor, power electronics, and a network interface in a single housing, allowing decentralized mounting on moving axes. It is used in industrial automation to deliver precise torque and speed control while minimizing control-cabinet space and reducing cable runs.

The drive operates from a bus voltage of **DC 750 V**, giving the embedded inverter enough capacity for rapid acceleration and regenerative braking. Heat is removed through **natural convection**, so no fans or forced-air ducts are required, but clearance must be maintained around the finned enclosure. Power, feedback, and 24 V safety contacts are grouped inside a single **hybrid connector**, reducing midline junctions on the machine. Emergency stopping is supported by the hardware-based **Safe Torque Off (STO)** channel, which disables gate signals within microseconds. Position data reaches the control processor over **Hiperface**. The assembly has motor size 061, length C, winding code 35, Basic performance level, design version 1, and internal series number 2. It is supplied without a holding brake.

For field networks, the electronics provide a **Multi-Ethernet** port capable of automatically negotiating EtherNet/IP, PROFINET, or EtherCAT communication. The absolute feedback system resolves the rotor over **16 signal periods** per revolution and stores the turn count in nonvolatile memory, enabling accurate positioning immediately after power-up. Its sensing element is **capacitive**, so it remains accurate in environments with strong magnetic fields.

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Mechanical power leaves the unit through a **shaft with a keyway**. A factory-installed shaft seal limits lubricant leakage and the ingress of contaminants, while the shaft arrangement accommodates the torque associated with winding code 35.

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:**	35	**Last Verified:**	11/07/2026 12:17 PM

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