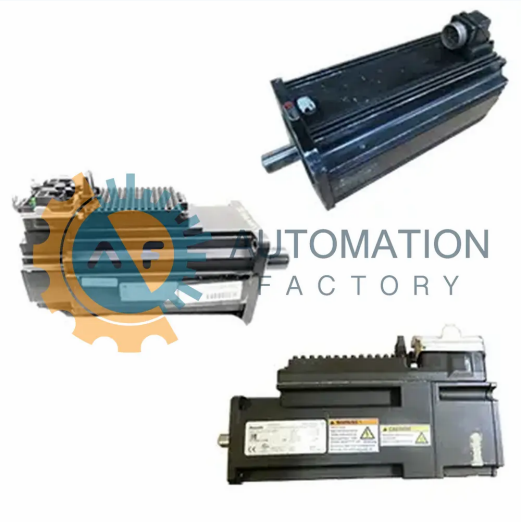
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-35N-M1-HG0-ET-NN-D7-TO-FW



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The **KSM02.1B-061C-35N-M1-HG0-ET-NN-D7-TO-FW** is a motor-integrated servo drive manufactured by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. By placing the drive electronics directly on the motor housing, the unit reduces wiring and panel space while providing closed-loop torque and speed control for a single axis of automated equipment. It combines a permanent-magnet synchronous motor with an onboard inverter, allowing the device to be mounted close to the load. This arrangement also moves heat-producing drive components away from the main control cabinet and reduces the number of separate connections required between the cabinet and motor.

Power for the drive section is supplied from a regulated bus at **DC 750 V**, allowing the device to share a common DC link with other axes. Phase and control conductors enter through a **hybrid connector**, so one cable carries power, feedback, and I/O signals. Heat generated by the inverter is removed through **natural convection**, eliminating the need for forced-air or liquid-cooling equipment. Position feedback uses a **Hiperface interface** connected to an encoder that produces **128 signal periods** per mechanical revolution. The motor has a frame size of 061, a frame length of C, and winding code 35. It has a basic performance level, while its Version 1 design belongs to Series 2.

Encoder sensing uses an **optical track**, and the **multi-turn absolute encoder** preserves position information after bus power is removed. Motion commands and diagnostic data pass through a **Multi-Ethernet interface**, which supports integration with compatible real-time Ethernet fieldbuses. The motor has a **plain shaft with a**

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shaft seal, helping protect the internal components from contaminants at the shaft opening. A holding brake is not installed, so an external holding device is necessary when an unpowered axis must remain stationary. The shaft arrangement is suited to couplings that clamp directly around a smooth cylindrical surface rather than engaging a keyway. The integrated design keeps motor control, feedback processing, and power conversion within the same assembly while maintaining separate external connections through the combined cable interface.

Specifications

Connection Type:	Hybrid Connector	**Cooling Type:**	Natural convection	**Design Option:**	Multi-Ethernet output coupling
Design Version:	1	**Encoder Interface:**	Hiperface	**Encoder Resolution:**	128 signal periods
Encoder Technology:	Optical	**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:**	Without safety technology
Series:	2	**Shaft Seal:**	Yes	**Shaft Type:**	Plain shaft
Supply Voltage:	DC 750 V	**Winding Code:**	35	**Last Verified:**	11/09/2026 1:51 PM

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