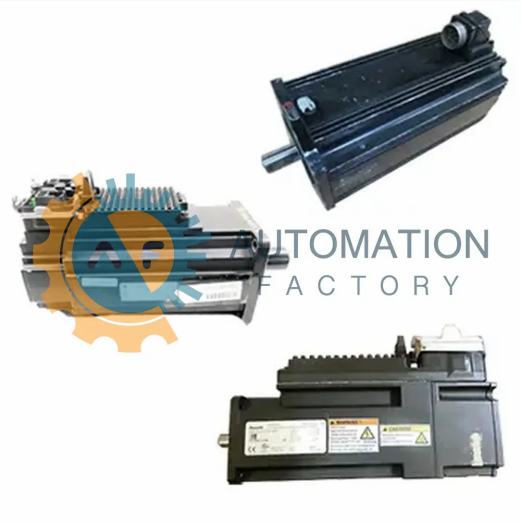
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-35N-S1-HG0-ET-S3-D7-TO-FW



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The **KSM02.1B-061C-35N-S1-HG0-ET-S3-D7-TO-FW** is an integrated servo drive module produced by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. By combining power electronics with a synchronous motor in a single housing, the unit mounts directly on machinery and delivers decentralized motion control for industrial automation lines. The drive is design version 1 and belongs to Series 2 of the platform. Its 061 frame, C length, and winding code 35 establish the motor configuration and electromagnetic characteristics.

Its power stage is rated for **DC 750 V**, allowing the drive to share a common DC bus with other converters while keeping motor cabling short. Command data reach the unit over the **Multi-Ethernet** network connection, which supports integration with EtherNet/IP, PROFINET, or EtherCAT control systems. Rotor position is captured through a **Hiperface** interface that supplies absolute feedback to the motion controller. The optical encoder provides **128 signal periods** per mechanical revolution, supporting consistent velocity and position control. Internal heat is dissipated by **natural convection**, removing the need for forced-air channels in confined mounting locations and reducing the number of auxiliary cooling components required around the drive.

Power, signal, and safety wiring pass through a single **hybrid connector**, simplifying cable routing between the drive and the rest of the machine. The output end uses a **plain shaft with a shaft seal**, which limits fluid ingress while allowing a compatible coupling to slide onto the shaft without a keyway. The drive is supplied **without a holding brake**, so vertical axes and static loads require an external locking device when motor torque is unavailable. The embedded **Safe Motion package without SBC** reaches Performance Level e and supports

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monitored stop and limited-speed functions within the drive. Because Safe Brake Control is not included, any external brake used by the application must be operated through suitable separate control equipment.

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:**	Single-turn	**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 Motion (without SBC)
Series:	2	**Shaft Seal:**	Yes	**Shaft Type:**	Plain shaft
Supply Voltage:	DC 750 V	**Winding Code:**	35	**Last Verified:**	11/08/2026 10:45 AM

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