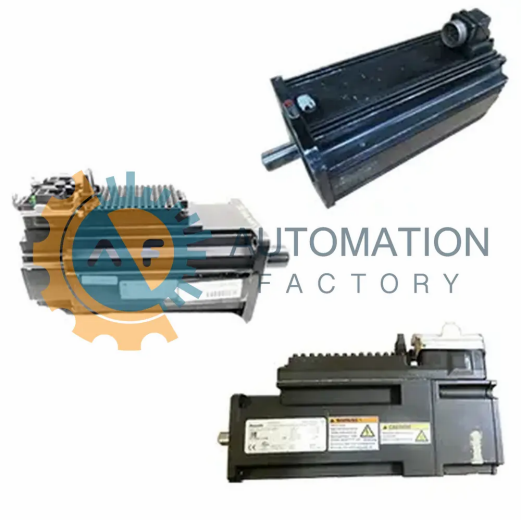
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM01.2B-071C-35N-M1-HG0-SE-NN-D7-NN-FW



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The **KSM01.2B-071C-35N-M1-HG0-SE-NN-D7-NN-FW** is a motor-integrated servo drive manufactured by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. As a compact axis unit, it combines a synchronous motor in the 071 frame size with drive electronics to provide decentralized motion control in automated assembly lines, packaging machines, and material-handling stations. The product follows design version 2, carries a Basic performance level, and is built in series 1 with the standard mechanical option. Integrating power conversion and motor control at the machine reduces cabinet space and limits the length of high-current motor cables.

The drive is powered by a **DC 750 V** link, allowing it to share a common bus with other inverters on multi-axis platforms. Machine control signals travel over **SERCOS 2 (RS-422)**, providing deterministic cycle times for coordinated motion. Rotor position feedback is supplied through a **Hiperface** optical encoder that generates **128 signal periods** per revolution and includes a multi-turn absolute track for position retention after a power loss. Cooling relies on **natural convection**, so the housing must be installed where air can flow freely around its surfaces. No fans or liquid cooling circuits are required for heat removal. Winding code 35 sets the motor constants used by the matching drive parameters, while the C-length lamination stack balances continuous torque and motor weight within the available installation space.

Field wiring is routed through a single **hybrid connector** that carries power, feedback, and SERCOS signals, simplifying cable routing between system components. The motor uses a **plain shaft** for coupling, and a **shaft seal**

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helps limit the entry of dust or coolant at the shaft opening. The actuator is supplied **without a holding brake**, so motor torque or an external locking device must support a stationary load. Vertical axes require an appropriate external restraint to prevent movement when drive power is unavailable. The standard mechanical arrangement supports direct integration into machines that use decentralized drive equipment.

Specifications

Connection Type:	Hybrid Connector	**Cooling Type:**	Natural convection	**Design Option:**	Standard
Design Version:	2	**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:	SERCOS 2 (RS422)	**Motor Length:**	C	**Motor Size:**	071
Performance Level:	Basic	**Product Type:**	Motor-Integrated Servo Drive	**Safety Technology:**	Without safety technology
Series:	1	**Shaft Seal:**	Yes	**Shaft Type:**	Plain shaft
Supply Voltage:	DC 750 V	**Winding Code:**	35	**Last Verified:**	11/10/2026 6:33 AM

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