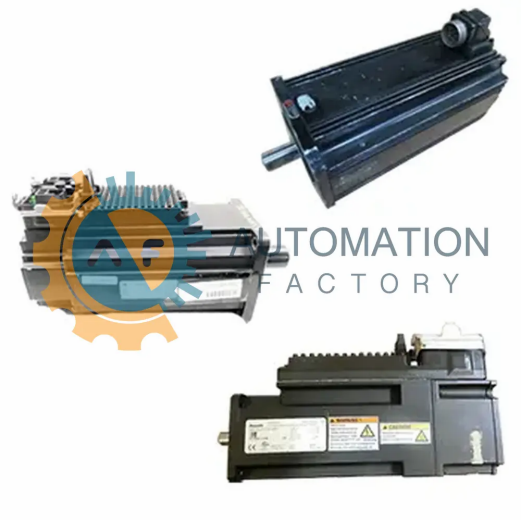
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-076C-35N-S3-HG0-ET-NN-D7-ES-FW



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The **KSM02.1B-076C-35N-S3-HG0-ET-NN-D7-ES-FW** is produced by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. By combining a permanent-magnet motor with decentralized drive electronics, the unit allows motion control to be mounted directly on an axis, reducing the amount of wiring required inside the control cabinet. In automated cells, this configuration shortens cable runs and frees space in the main enclosure while supporting closed-loop positioning. The integrated arrangement is suitable for packaging equipment, handling systems, and other machines that use distributed motion axes.

This model operates from a **750 VDC bus**, allowing it to connect to high-voltage supply modules used in multi-axis systems. Heat is removed by **natural convection**, so the aluminum housing dissipates thermal energy without fans or liquid cooling. Power, feedback, and communication share a single **hybrid connector**, which reduces harness weight on moving gantries and simplifies cable routing. The drive exchanges real-time data with the controller over **Multi-Ethernet**, which supports several industrial Ethernet protocols through one hardware port. Rotor position data are transmitted through the **Hiperface encoder interface**. This interface also allows digital parameter data to be stored in the feedback device for access by the drive controller.

The unit contains a **single-turn encoder** with a resolution of **16 signal periods**. Its absolute position repeats after one mechanical revolution, making it suitable for rotary axes that establish a reference position during startup. The encoder uses **capacitive sensing**, which resists the effects of magnetic interference and vibration. The **076 frame size** provides a moderate mechanical envelope that balances torque capacity with a compact housing. The axis is

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supplied without a holding brake, so an external locking device or motor torque must secure vertical loads when power is removed. A plain shaft supports connection to precision gearboxes through an appropriate clamping coupling. A shaft seal protects the internal bearings from dust and liquid splashes during operation.

Specifications

Connection Type:	Hybrid Connector	**Cooling Type:**	Natural convection	**Design Option:**	External master communication Multi-Ethernet
Design Version:	1	**Encoder Interface:**	Hiperface	**Encoder Resolution:**	16 signal periods
Encoder Technology:	Capacitive	**Encoder Turn Type:**	Single-turn	**Holding Brake:**	Without holding brake
Master Communication Protocol:	Multi-Ethernet	**Motor Length:**	C	**Motor Size:**	076
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:**	11/08/2026 9:33 AM

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