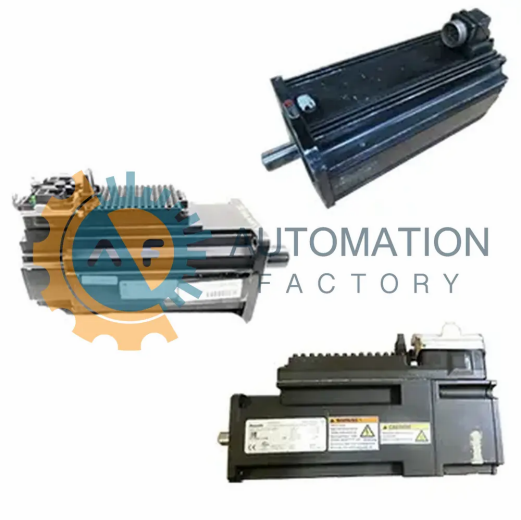
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-076C-35N-M1-HG0-ET-S3-D7-NN-FW



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Bosch Rexroth Indramat's **KSM02.1B-076C-35N-M1-HG0-ET-S3-D7-NN-FW** belongs to the KSM Motor Integrated Servo Drives series and combines a permanent-magnet servo motor with embedded power electronics. By integrating drive, feedback, and network interfaces into a single housing, the unit enables decentralized axis control in conveyors, packaging machines, and material-handling stations. Instead of routing motor cables back to a central cabinet, the drive mounts directly on the machine frame and receives power from a common DC link, simplifying wiring and reducing electromagnetic emissions in industrial automation layouts.

The drive operates from a bus voltage of **DC 750 V**, allowing long power daisy chains in multi-axis lines without additional transformers. A single **hybrid connector** carries the DC supply together with communication and brake leads, decreasing the number of required connections. Heat is removed through **natural convection**, so no fans are required and cooling does not depend on forced airflow. Position and speed feedback is transmitted through **Hiperface** signals generated by the integrated optical encoder. Motion commands reach the unit through the **Multi-Ethernet interface**, which supports communication protocols such as EtherNet/IP, PROFINET, and EtherCAT.

The optical encoder supplies **128 signal periods** per revolution and uses a **multi-turn absolute system**, so the drive can report the shaft position across power cycles without requiring a homing routine. Functional safety is handled by the **Safe Motion package**, which monitors speed and position internally even though Safe Brake Control is not installed. Torque is transmitted through a **plain shaft with a shaft seal**, helping protect the motor interior from contaminants. The motor has size 076, length C, and winding code 35 for the basic performance class.

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It is internally classified as Series 2 and is supplied as design version 1. The assembly has a standard mechanical option set and comes without a holding brake, so external load retention may be necessary when the axis is stationary and drive power is unavailable.

Specifications

Connection Type:	Hybrid Connector	**Cooling Type:**	Natural convection	**Design Option:**	Standard
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:**	076
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:**	11/09/2026 3:27 PM

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