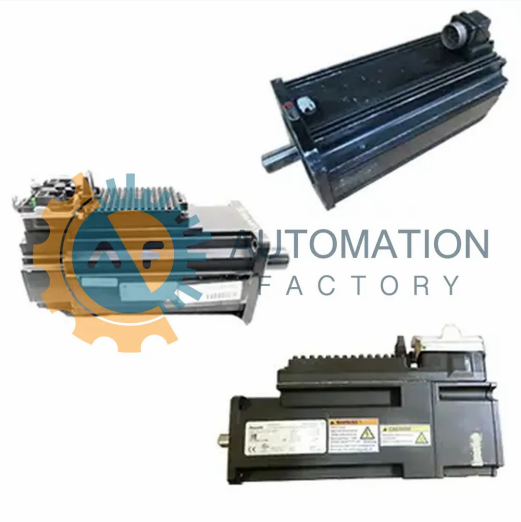
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

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



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The **KSM02.1B-076C-35N-M1-HG0-ET-SD-D7-NN-FW** is a motor-integrated servo drive produced by Bosch Rexroth Indramat under the KSM Motor Integrated Servo Drives series. It combines an electric motor, power electronics, and motion safety circuitry in a single housing. This integrated arrangement streamlines installation by reducing the number of separate components and connections required at the axis. The unit is intended for decentralized motion applications in automated assembly lines, packaging cells, and material-handling stations.

This unit accepts a bus supply of **DC 750 V**, delivered to the drive through a **hybrid connector** that carries power, Ethernet, and safety signals over one cable. Position data flows to the controller through a **Hiperface interface**, and the optical encoder's multi-turn design retains the absolute shaft position after a loss of power. Heat is removed by **natural convection**, so no forced-air components are required at the installation site. Machine networks are linked through **Multi-Ethernet ports** that can be configured for EtherNet/IP, PROFINET, or EtherCAT without additional communication hardware. The motor has winding code 35, frame size 076, and frame length C. It carries a Basic performance rating for series 2 devices. The unit also uses the Standard design option and design version 1, while an installed shaft seal protects the internal bearings against coolant splashes.

Encoder resolution is **128 signal periods per revolution**, supporting precise velocity control during repeated positioning cycles. The axis is supplied **without a holding brake**, which reduces inertial mass for high-speed indexing tables. Torque is transmitted through a **plain shaft**, simplifying connection to gearheads, clamping couplings, or belt pulleys. Integrated **Safe Motion with SBC** supports safe torque off, safe stop 1, and safely

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limited speed functions within the drive. Its single-channel safe brake control can manage compatible external braking arrangements when the application requires controlled load retention. The encoder's optical sensing principle helps limit measurement drift as the motor temperature changes during operation.

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 (with SBC)
Series:	2	**Shaft Seal:**	Yes	**Shaft Type:**	Plain shaft
Supply Voltage:	DC 750 V	**Winding Code:**	35	**Last Verified:**	11/09/2026 5:06 PM

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