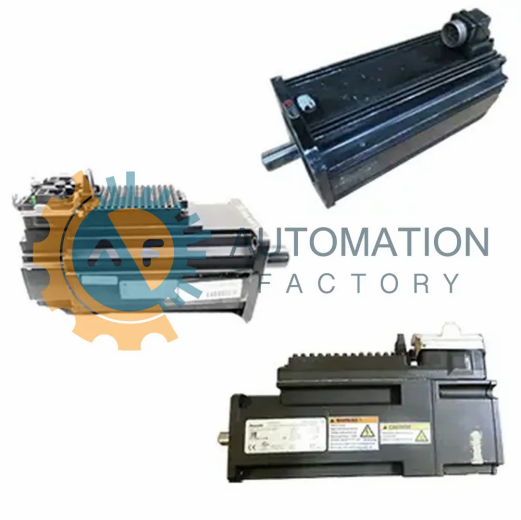
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM01.2B-076C-35N-M1-HP2-SE-NN-D7-NN-FW



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The **KSM01.2B-076C-35N-M1-HP2-SE-NN-D7-NN-FW** is a motor-integrated servo drive manufactured by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. By combining the servo motor, power stage, and control electronics in one housing, the unit eliminates the need for a separate cabinet-mounted drive and shortens feedback paths. In automated assembly lines and packaging stations, it executes position, speed, and torque commands directly at the axis. This decentralized arrangement reduces wiring length and supports responsive machine operation.

The drive connects to a DC bus rated at **DC 750 V**, allowing it to operate with multi-axis power supplies in decentralized systems. Control data and diagnostic information are exchanged over **SERCOS 2 (RS422)**, providing real-time communication without an additional gateway. Power, encoder, and service lines use a single **hybrid connector**, which reduces the number of cable runs required on moving carriages. Rotor position is measured by a **Hiperface** optical encoder that produces **128 signal periods** per mechanical revolution. Its multi-turn memory retains the absolute position after shutdown, allowing the controller to recover position information when power returns. The product is Series 1 with design version 2, and winding code 35 matches the phase impedance to the stator.

Heat is removed through **natural convection**, so the installation must provide sufficient clearance for airflow around the housing. The electrically released brake operates at **DC 24 V** and engages when brake power is removed, helping secure vertical axes without continuously energizing the stator. Torque is transferred through a

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shaft with a keyway, while a shaft seal helps prevent dust and coolant from reaching the internal bearings. Frame size **076** and motor length C establish the space required for mounting the unit on the machine. The motor has a basic performance level intended for moderate-inertia loads. The drive does not include integrated safety technology, so any required safe-torque-off function must be provided by external safety circuits.

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:**	Electrically Released
Holding Brake Voltage:	DC 24 V	**Master Communication Protocol:**	SERCOS 2 (RS422)	**Motor Length:**	C
Motor Size:	076	**Performance Level:**	Basic	**Product Type:**	Motor-Integrated Servo Drive
Safety Technology:	Without safety technology	**Series:**	1	**Shaft Seal:**	Yes
Shaft Type:	Shaft with keyway	**Supply Voltage:**	DC 750 V	**Winding Code:**	35
Last Verified:	11/10/2026 7:28 AM				

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