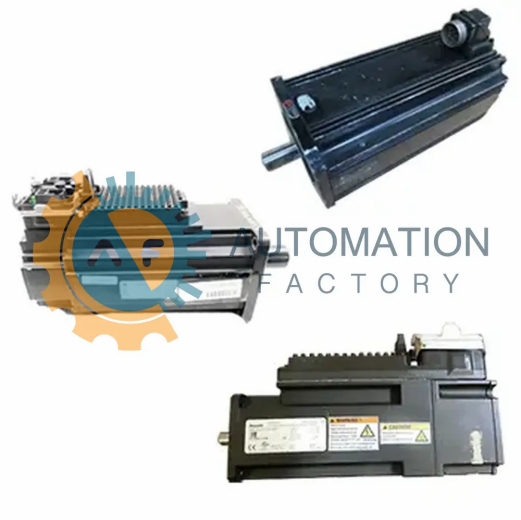
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM01.2B-076C-35N-M1-HG2-SE-NN-D7-NN-FW



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The **KSM01.2B-076C-35N-M1-HG2-SE-NN-D7-NN-FW** is a motor-integrated servo drive produced by Bosch Rexroth Indramat within the KSM Motor Integrated Servo Drives series. It combines a permanent-magnet servo motor, power electronics, and a fieldbus interface in one housing, allowing decentralized axis control through a single DC supply trunk. Placing the control system at the machine frame reduces cabinet wiring and supports precise position, speed, and torque regulation. The unit is suitable for packaging, material-handling, and general automation equipment that requires coordinated motion from a compact assembly.

Electrical power is supplied at **DC 750 V**, matching the high-voltage bus used by many IndraDrive platforms. Command and diagnostic traffic uses the **SERCOS 2 (RS422)** protocol, providing deterministic cycle times for multi-axis coordination. Heat is removed through **natural convection**, so the unit must be mounted where air can circulate freely without fans. Rotor position feedback is provided by a **Hiperface encoder** that generates **128 signal periods** per revolution by reading optical tracks. Its multi-turn absolute capability supports fine position interpolation and retains position data across power cycles. Size 076, length C, and winding code 35 establish the physical format and electrical characteristics of the motor. The unit has a Basic performance level, design version 2, and Standard design option.

An **electrically released holding brake** clamps the shaft whenever control voltage is absent, preventing unintended movement while the drive is not operating. The brake is energized by **DC 24 V** during normal operation so the motor can rotate freely. Power, signal, and brake conductors are consolidated in a single **hybrid connector**,

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reducing the number of separate cable interfaces required at the housing. Output torque reaches the load through a **plain shaft**, which is suitable for use with a properly fitted clamping coupling. A factory-installed shaft seal helps protect the internal bearings from dust and fluid splashes. The assembly does not include onboard safety functions, so required stop or guard-monitoring functions must be provided by external safety devices.

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:	Plain shaft	**Supply Voltage:**	DC 750 V	**Winding Code:**	35
Last Verified:	11/09/2026 10:00 AM				

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