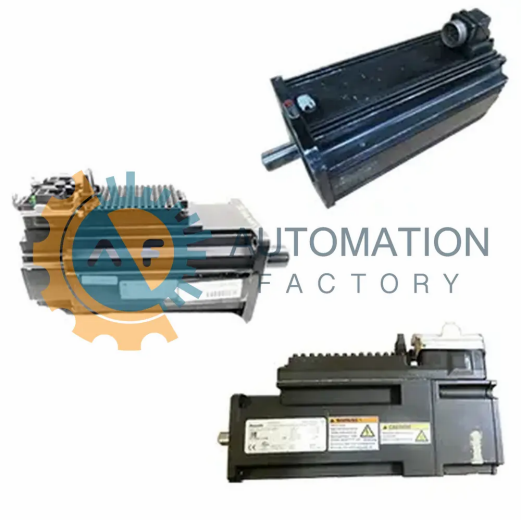
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-076C-35N-M3-HG2-ET-NN-D7-NN-FW



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The **KSM02.1B-076C-35N-M3-HG2-ET-NN-D7-NN-FW** is a motor-integrated servo drive produced by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. It combines a permanent-magnet servo motor, drive electronics, and a fieldbus interface in one housing, allowing installation on a machine without a control-cabinet inverter. This arrangement supplies point-of-use motion power for packaging lines, material-handling systems, and assembly cells while the central controller communicates through the onboard Ethernet network.

The drive accepts a bus voltage of **DC 750 V**, and power, signal, and brake conductors are routed through a single **hybrid connector**. The enclosure relies on **natural convection** for passive cooling, eliminating maintenance components such as fans. Command and diagnostic data pass through the **Multi-Ethernet interface**, while position data returns through a **Hiperface link**. The motor has a size of 076, a length of C, and a winding code of 35. It is design version 1 and uses the standard design option. The plain shaft mates directly with couplings, and a shaft seal helps prevent lubricant leakage and contaminant entry. The unit has a basic performance level and belongs to Series 2. It does not include integrated safety technology, so torque-off or safe-motion functions must be provided externally.

The feedback system resolves each rotation into **16 signal periods** using a **capacitive sensing element** that resists interference from stray magnetic fields. Multi-turn absolute tracking retains position across power cycles, simplifying restart routines by removing the need to establish the position again. Load holding is handled by an **electrically released brake** energized at **DC 24 V**. The brake clamps automatically when the control supply is

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lost, helping prevent unintended shaft movement. Shaft sealing protects the bearing area, while passive cooling removes operating heat without requiring an external fan or liquid-cooling circuit.

Specifications

Connection Type:	Hybrid Connector	**Cooling Type:**	Natural convection	**Design Option:**	Standard
Design Version:	1	**Encoder Interface:**	Hiperface	**Encoder Resolution:**	16 signal periods
Encoder Technology:	Capacitive	**Encoder Turn Type:**	Multi-turn absolute	**Holding Brake:**	Electrically Released
Holding Brake Voltage:	DC 24 V	**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:	11/09/2026 12:38 AM				

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