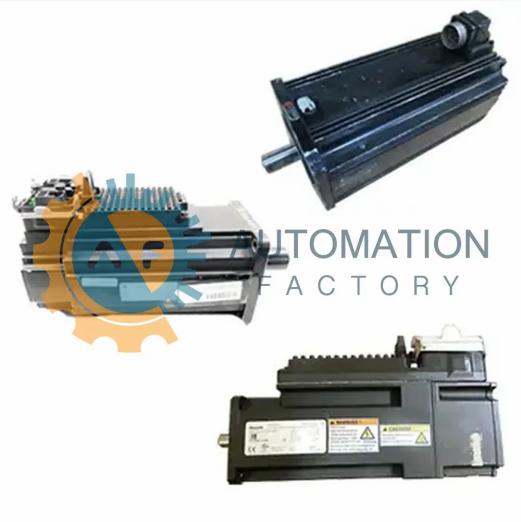
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-076C-35N-S1-HP2-ET-NN-D7-NN-FW



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The **KSM02.1B-076C-35N-S1-HP2-ET-NN-D7-NN-FW** is manufactured by Bosch Rexroth Indramat and belongs to the KSM Motor Integrated Servo Drives series. It combines a servo motor with drive electronics, eliminating the need for a separate cabinet-mounted inverter and providing decentralized motion control for packaging stations, handling modules, and compact machines. The unit has Design Version 1 with the Standard design option, a Basic performance level, and Series 2. A shaft seal is fitted to help protect the motor from contaminants and lubricant leakage.

The drive section is supplied by a high-energy DC bus rated at **DC 750 V**, providing sufficient voltage for rapid acceleration while keeping cable runs short. Heat produced by the electronics is removed through **natural convection**, so no fan or liquid cooling loop is required. Power, brake, encoder, and fieldbus conductors terminate in a single **hybrid connector**, reducing the number of separate connections and helping prevent wiring errors. Rotor position feedback is transmitted through a **Hiperface interface** that carries analog sine-cosine signals and digital memory data. Inside the encoder, an optical scanning head generates **128 signal periods** per revolution. The single-turn format is suitable for short-stroke indexing axes where absolute multi-turn position data is unnecessary. The optical scanning principle also provides resistance to electromagnetic interference during rapid drive switching.

An electrically released brake engages whenever its supply is absent, and the release circuit operates at **DC 24 V** so the axis can hold vertical loads during a power loss. For real-time control networks, the unit uses **Multi-Ethernet**

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, allowing it to participate in EtherNet/IP, PROFINET, or EtherCAT topologies without additional communication hardware. Mechanical coupling is handled by a **shaft with a keyway**, which provides positive engagement with keyed couplings. The compact **076 motor size** and length code C allow the assembly to fit narrow machine spaces. Winding code 35 matches the current limits of the integrated inverter.

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:**	Single-turn	**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:	Shaft with keyway	**Supply Voltage:**	DC 750 V	**Winding Code:**	35
Last Verified:	11/09/2026 4:46 AM				

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