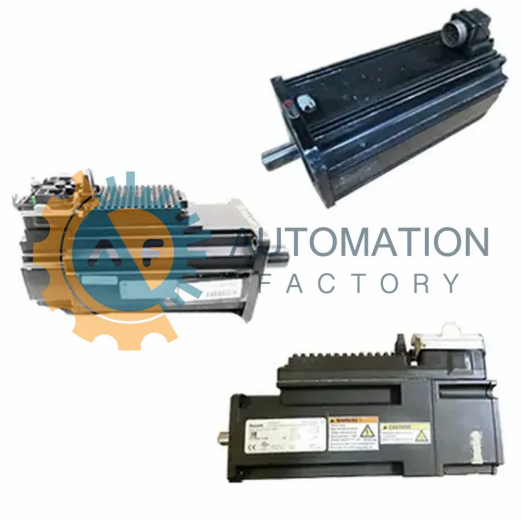
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-076C-35N-M1-HP2-ET-NN-D7-NN-FW



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Bosch Rexroth Indramat manufactures the **KSM02.1B-076C-35N-M1-HP2-ET-NN-D7-NN-FW**, a motor-integrated servo drive from the KSM Motor Integrated Servo Drives series. By combining a permanent-magnet servomotor, encoder, power electronics, and network interface in one housing, the unit reduces cabinet wiring and shortens installation time on modular machines. It is intended to position tooling, conveyors, or robotic axes directly from distributed DC bus rails in flexible production cells. The drive closes speed, torque, and position loops internally while reporting operating status to the plant controller.

The power stage accepts a bus supply of **DC 750 V**, so energy can be shared with other axes on the same line. Heat is removed by **natural convection**; fins on the cast housing transfer heat to the surrounding air without fans. Position feedback is provided by an optical encoder that communicates through **Hiperface** and delivers **128 signal periods** per mechanical revolution, allowing fine interpolation for precise positioning. Multi-turn counting is maintained without a battery. A spring-applied brake secures the shaft whenever supply power is lost, and its coil operates at **DC 24 V**. This brake supports load holding on vertical axes. The unit has design version 1, length code C, winding code 35, and frame size 076, providing moderate rotor inertia for medium-torque applications.

System wiring is consolidated through a **hybrid connector** that carries power, feedback, and I/O signals in a single cable. Command and diagnostic data move over the **Multi-Ethernet** master interface, providing protocol flexibility for EtherNet/IP, PROFINET, or EtherCAT networks. The holding brake is **electrically released**, so it remains engaged when the brake circuit is not energized. Torque is transmitted through a **shaft with a keyway**, which

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provides positive engagement with a compatible coupling or driven component. A factory-installed shaft seal helps prevent splash and dust from entering the bearing cavity. The drive has a basic performance level and relies on external controls for machine safety functions.

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:**	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:	11/10/2026 12:47 AM				

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