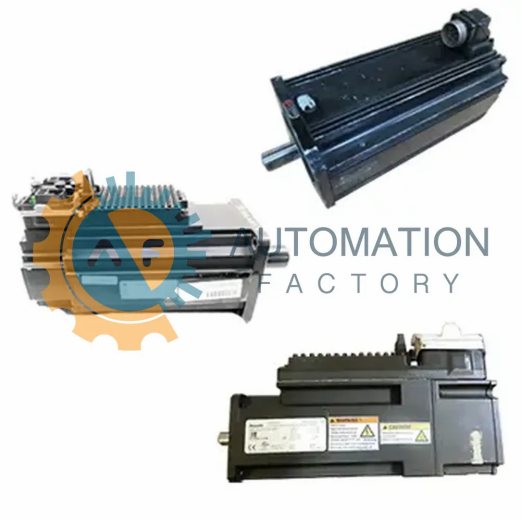
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-076C-35N-M3-HP2-ET-L3-D7-NN-FW



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The **KSM02.1B-076C-35N-M3-HP2-ET-L3-D7-NN-FW** is a motor-integrated servo drive from the Bosch Rexroth Indramat KSM Motor Integrated Servo Drives series. This mechatronic unit combines a permanent-magnet servo motor with drive electronics, allowing distributed motion control without a separate cabinet-mounted amplifier. It is installed close to the load, which shortens wiring runs and reduces exposure to electromagnetic interference. This arrangement is advantageous for conveyors, pick-and-place axes, and small tooling stations in industrial automation.

The unit operates from a **DC 750 V** bus supplied by a central power supply module. A single **hybrid connector** carries DC power, control signals, brake leads, and Ethernet communication to minimize machine cabling. Heat produced by the power stage is removed through **natural convection**, so no fans or liquid lines are required. Rotor position is reported through a **Hiperface interface** that supports automatic motor parameter transfer and provides absolute feedback at power-up. The integrated brake is **electrically released**, and its 24 V coil clamps the shaft whenever control power is lost, securing vertical loads or indexing tables. A shaft seal blocks lubricant migration, while the keyed shaft provides positive torque transmission to couplings or pulleys.

Functional safety is provided by **Safe Torque Off (STO)**, which disconnects the drive output stages without removing power from the DC bus. The master port supports **Multi-Ethernet** communication for compatibility with SERCOS III, EtherNet/IP, PROFINET, and EtherCAT networks. The feedback device uses a **capacitive scanning method** that resists magnetic fields and provides stable multi-turn position data. Its resolution of **16 signal**

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periods per mechanical revolution supports precise velocity control at low speeds. The drive has the Basic performance level and a size 076 stator frame with length code C. It also uses winding code 35 to provide the torque and speed range associated with this second-generation, design version 1 platform.

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:	Safe Torque Off (STO)	**Series:**	2	**Shaft Seal:**	Yes
Shaft Type:	Shaft with keyway	**Supply Voltage:**	DC 750 V	**Winding Code:**	35
Last Verified:	11/09/2026 7:50 PM				

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