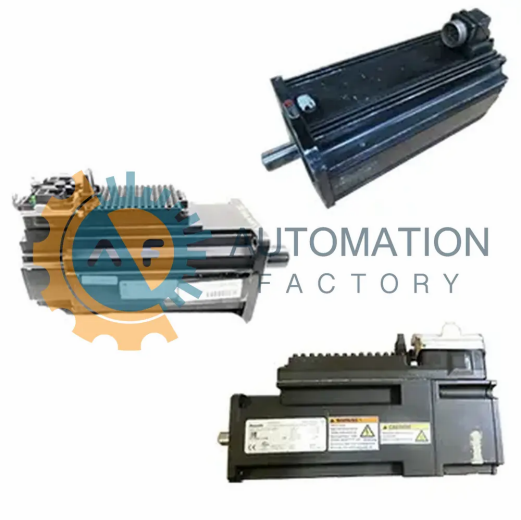
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-071C-35N-M3-HG2-ET-L3-D7-NN-FW



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The **KSM02.1B-071C-35N-M3-HG2-ET-L3-D7-NN-FW** is a motor-integrated servo drive from Bosch Rexroth Indramat that belongs to the KSM Motor Integrated Servo Drives series. By embedding the power electronics directly onto the servo motor, the device decentralizes axis control and shortens cabinet wiring for packaging, handling, and assembly equipment. The unit is built on hardware series 2, uses winding code 35, and has motor size 071 with length code C. Its compact housing allows installation in machine layouts where available space is limited.

Electrical energy reaches the inverter stage through a shared DC link operating at **DC 750 V**, enabling the axis to draw peak current without an additional mains rectifier. Internal heat is dissipated through **natural convection**, so the housing requires unobstructed airflow instead of active fans. Position feedback is transferred over the **Hiperface** interface. The encoder provides 16 signal periods per revolution and retains multi-turn absolute position data, allowing the axis to start without a homing cycle. The drive is design version 1 and includes a plain shaft protected by a shaft seal. Load holding is provided by an electrically released, spring-applied brake that operates at **DC 24 V**.

Control networks connect through the **Multi-Ethernet** interface, which supports several real-time Ethernet protocols. The molded **Hybrid Connector** consolidates cable connections at the drive and simplifies routing through the machine. Functional safety is handled inside the drive through **Safe Torque Off (STO)**, which disables torque generation when a safety channel is opened. The product has a **Basic** performance level for applications that require precise motion with moderate dynamic response. Encoder signal processing uses a **capacitive** sensing

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principle that resists interference from magnetic fields and vibration. This sensing method helps the encoder maintain stable position feedback during normal machine operation.

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:	071	**Performance Level:**	Basic	**Product Type:**	Motor-Integrated Servo Drive
Safety Technology:	Safe Torque Off (STO)	**Series:**	2	**Shaft Seal:**	Yes
Shaft Type:	Plain shaft	**Supply Voltage:**	DC 750 V	**Winding Code:**	35
Last Verified:	11/08/2026 7:10 AM				

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