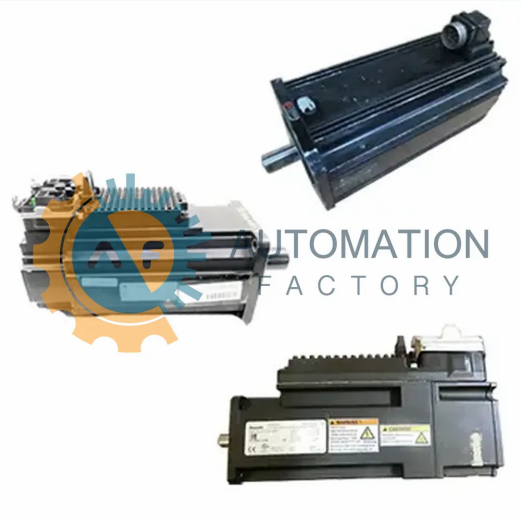
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-071C-35N-M3-HG0-ET-L3-D7-NN-FW



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The **KSM02.1B-071C-35N-M3-HG0-ET-L3-D7-NN-FW** is manufactured by Bosch Rexroth Indramat and belongs to the KSM Motor Integrated Servo Drives series. This device combines a synchronous motor and power electronics in one housing, allowing motion axes to be mounted directly on machinery without long shielded motor cables. It is suitable for distributed automation systems that share a DC link and require compact drives near the load. The basic performance level provides positioning control for conveyors, pick-and-place units, and light processing stations.

The power stage is supplied from a common bus at **DC 750 V**, removing the need for each axis to have its own rectifier. Power, feedback, and I/O lines are routed through a single **hybrid connector**, which simplifies installation and limits enclosure penetrations. Heat is dissipated through **natural convection**, and the fanless design reduces maintenance requirements and acoustic noise. Real-time commands travel over **Multi-Ethernet**, enabling the selection of EtherNet/IP, PROFINET, or EtherCAT through software. For machine safety, the integrated **Safe Torque Off (STO)** circuit interrupts gate-drive signals so the motor cannot generate torque when the safety channel is triggered.

Rotor angle and multi-turn position are monitored through a **Hiperface** link connected to a **capacitive measuring system**. The encoder provides **16 signal periods** per revolution, supporting smooth velocity control and accurate position feedback after power-up. Because the assembly is supplied **without a holding brake**, gravity-loaded axes require an external clamp when power is removed. The plain shaft has a shaft seal, while the 071 frame and C-length stator accommodate the medium-torque winding identified by code 35. The unit uses the standard design

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option and Version 1 electronics based on Series 2 conventions.

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:**	Without holding brake
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:**	11/09/2026 7:05 AM

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