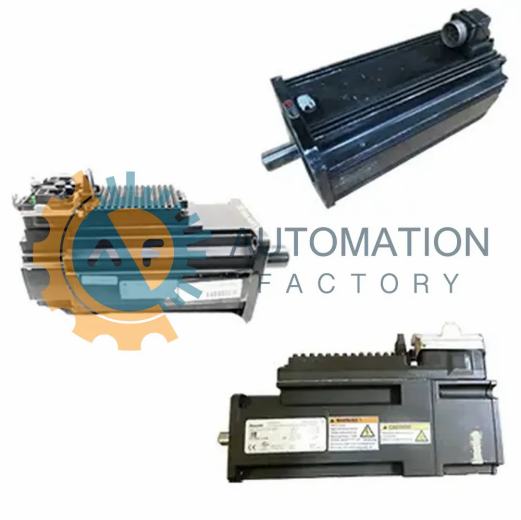
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-071C-35N-M3-HP0-ET-L3-D7-NN-FW



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The **KSM02.1B-071C-35N-M3-HP0-ET-L3-D7-NN-FW** is a motor-integrated servo drive produced by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. It combines a synchronous motor, inverter stage, and motion control electronics in one enclosure, allowing placement close to the mechanical load. This configuration supports decentralized automation lines where local drives reduce panel space and feedback cabling, especially on packaging, handling, and small assembly modules.

The drive is fed from a **DC 750 V** common bus, so it can share regenerated energy with other axes on the machine. Power, signal, and communication lines enter through a single **hybrid connector**, minimizing the connector count and simplifying installation. Thermal energy leaves the housing through **natural convection**; there are no fans, so maintenance is limited to keeping the airflow channels clear. Motion commands reach the integrated controller through the **Multi-Ethernet** interface, which supports several real-time Ethernet fieldbuses without requiring different hardware. Rotor position feedback is generated by a **capacitive encoder** that is insensitive to magnetic fields and delivers precise phase information for accurate commutation.

A resolution of **16 signal periods** per mechanical revolution provides closely spaced commutation points, while the **multi-turn absolute position function** retains the shaft position across power cycles for immediate starts without homing. Integrated **Safe Torque Off (STO)** disconnects the power stage so the motor cannot produce torque when the safety circuit is open. Mechanical output is delivered through a **shaft with a keyway**, providing positive torque transmission to pulleys or couplings. The motor has a size of 071, length code C, winding code 35, and a basic

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performance level suited to mid-range servo duties. The unit uses design version 1 and a standard housing. A shaft seal helps protect the internal components, and the motor is supplied without a holding brake for applications that use an external load-holding method.

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:**	Shaft with keyway
Supply Voltage:	DC 750 V	**Winding Code:**	35	**Last Verified:**	11/09/2026 10:32 AM

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