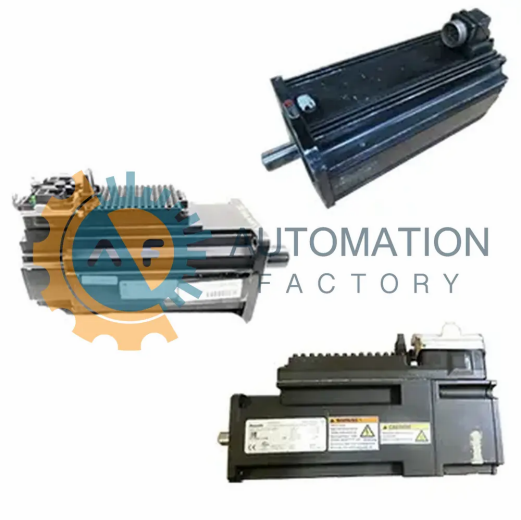
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-071C-35N-S3-HP2-ET-NN-D7-NN-FW



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The **KSM02.1B-071C-35N-S3-HP2-ET-NN-D7-NN-FW** is a motor-integrated servo drive designed and built by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. It combines drive electronics with a synchronous motor, simplifying decentralized motion axes in machines and conveyors. The motor has a size of 071 and a frame length of C. Its standard design option and design version 1 identify the product configuration, while its basic performance level supports general automation applications. The product belongs to Series 2. A shaft with a keyway provides positive torque transmission to a coupling or gearbox. A shaft seal helps prevent dust and fluid from reaching the internal bearings.

Power reaches the drive through a **hybrid connector**, and the intermediate circuit operates from a stabilized **DC 750 V** supply. Heat produced by the embedded power stage is dissipated through **natural convection**, so the installation must allow unobstructed airflow around the housing. Rotor position feedback is provided through a **Hiperface** interface. The integrated single-turn encoder delivers **16 signal periods** per revolution, providing position information for smooth velocity and position control. The combined power and communication connection reduces the number of separate cables routed to the axis. The integrated arrangement also allows the unit to be mounted directly on the machine frame instead of placing the drive electronics in a separate control cabinet.

The sensing system uses a **capacitive measurement principle** that tolerates shock and temperature variation during industrial operation. Shaft locking during power loss is handled by an **electrically released brake** energized at **DC 24 V**. This brake secures loads when electrical power is removed, including loads used in vertical or

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intermittent-duty axes. Process data and diagnostic information are exchanged through the built-in **Multi-Ethernet interface**, which supports communication with EtherNet/IP, PROFINET, and EtherCAT control systems. Winding code 35 matches the electromagnetic design to the size 071 stator. This winding provides the torque and speed characteristics required for common machine-motion tasks while operating within the thermal limits of natural-convection cooling.

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:**	Single-turn	**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:	Without safety technology	**Series:**	2	**Shaft Seal:**	Yes
Shaft Type:	Shaft with keyway	**Supply Voltage:**	DC 750 V	**Winding Code:**	35
Last Verified:	11/09/2026 8:58 AM				

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