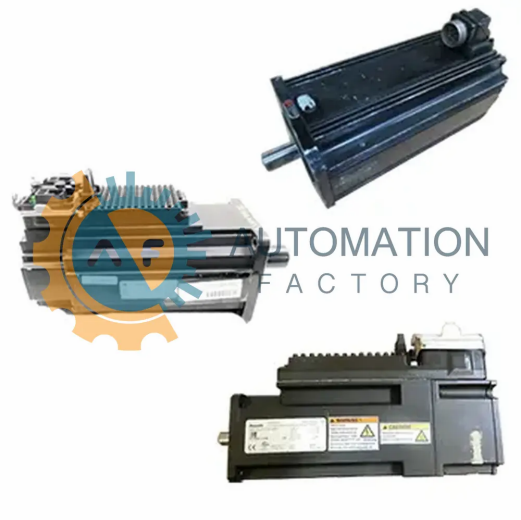
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-071C-35N-M1-HP0-ET-S3-D7-NN-FW



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The **KSM02.1B-071C-35N-M1-HP0-ET-S3-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 drive inverter with a size 071, length C synchronous motor, forming a compact axis module that mounts directly on the machine. In decentralized automation layouts, it generates torque, regulates speed, and exchanges status data without routing long motor cables back to a centralized cabinet. This arrangement reduces the amount of wiring between the control enclosure and each driven axis.

The drive accepts a bus supply of **DC 750 V**, so a shared DC link can feed multiple KSM axes from a single rectifier. Power, feedback, and brake lines are consolidated inside a **hybrid connector**, reducing the number of wiring points. Thermal losses are removed by **natural convection**, so no fans or liquid lines are required. Rotor position is monitored through a **Hiperface** encoder that delivers **128 signal periods** per electrical revolution, while its **multi-turn absolute capability** retains position across power cycles. The optical scanning technology provides noise-resistant feedback across the controller bandwidth. Because the unit is supplied without a holding brake, stopping torque must be produced by the drive or an external clamp. Design version 1 and winding code 35 establish the operating characteristics for this KSM motor size.

Upstream fieldbus traffic moves through the **Multi-Ethernet interface**, which supports EtherCAT, SERCOS III, PROFINET IRT, and EtherNet/IP through network configuration. Mechanical power leaves the motor through a **shaft with a keyway**, and a factory-installed shaft seal helps prevent oil or dust from entering at the bearing lip. The

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integrated **Safe Motion package** provides monitoring functions without an additional safety braking channel, supporting controlled-stop functions in automated machinery. The Basic performance level provides the standard control functions required for general-purpose speed and position control. The standard design option omits specialized mechanical additions that are not required for this configuration.

Specifications

Connection Type:	Hybrid Connector	**Cooling Type:**	Natural convection	**Design Option:**	Standard
Design Version:	1	**Encoder Interface:**	Hiperface	**Encoder Resolution:**	128 signal periods
Encoder Technology:	Optical	**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 Motion (without SBC)
Series:	2	**Shaft Seal:**	Yes	**Shaft Type:**	Shaft with keyway
Supply Voltage:	DC 750 V	**Winding Code:**	35	**Last Verified:**	11/09/2026 11:54 PM

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