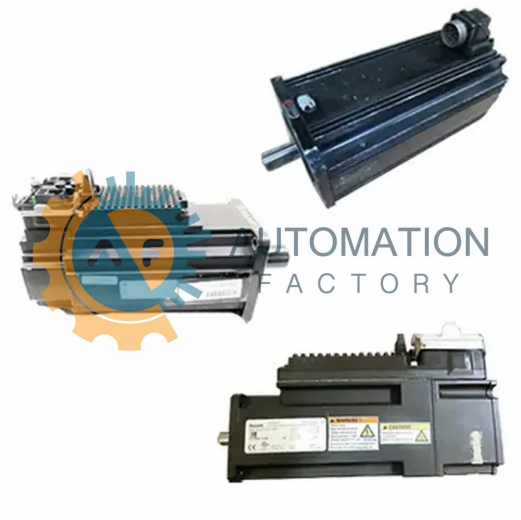
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-071C-35N-M1-HG0-ET-NN-D7-TO-FW



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The **KSM02.1B-071C-35N-M1-HG0-ET-NN-D7-TO-FW** is produced by Bosch Rexroth Indramat as part of the KSM Motor Integrated Servo Drives series. This motor-integrated servo drive combines a synchronous motor, power stage, and feedback electronics in one housing. Motion control can therefore be mounted directly on moving axes in distributed automation systems. This arrangement also eliminates the need for long motor and encoder cables between a central cabinet and the driven axis.

The drive operates from a **DC 750 V** supply bus, allowing it to connect to a common DC-link system without an internal rectifier. Thermal regulation relies on **natural convection**, with heat dissipating through the housing fins without an external fan. A single **hybrid connector** carries DC power, fieldbus signals, and brake conductors to simplify cable routing. The stator uses winding code 35, while motor length C indicates the active stack length and provides a torque-to-size ratio suited to the Basic performance level. The product is design version 1 and Series 2. Position feedback is provided by a **Hiperface optical encoder** that delivers **128 signal periods** per mechanical revolution, supporting precise speed regulation and smooth torque production.

The encoder uses **multi-turn absolute operation**, allowing it to retain position information across power cycles without battery support. Frame size **071** establishes the flange and stator dimensions used when mounting the unit in machinery. Output torque is transmitted through a **plain shaft**, and an installed shaft seal helps prevent lubricant and contaminants from reaching the bearings. The axis is supplied without a holding brake, so static loads must be retained by external mechanics or drive-produced torque. Functional safety technology is not included in

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this configuration. Real-time commands and diagnostic data travel through the **Multi-Ethernet interface**, which supports PROFINET, EtherNet/IP, or EtherCAT communication through the same port. This network flexibility allows the drive to communicate with different control platforms used in distributed production equipment.

Specifications

Connection Type:	Hybrid Connector	**Cooling Type:**	Natural convection	**Design Option:**	Multi-Ethernet output coupling
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:**	Without safety technology
Series:	2	**Shaft Seal:**	Yes	**Shaft Type:**	Plain shaft
Supply Voltage:	DC 750 V	**Winding Code:**	35	**Last Verified:**	11/10/2026 1:28 AM

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