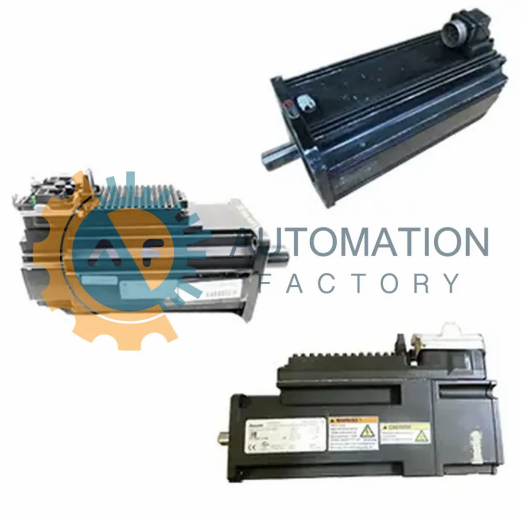
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-071C-35N-S1-HG0-ET-NN-D7-TO-FW



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The **KSM02.1B-071C-35N-S1-HG0-ET-NN-D7-TO-FW** is a motor-integrated servo drive produced by **Bosch Rexroth Indramat** within the **KSM Motor Integrated Servo Drives** series. By embedding the power electronics directly on the motor, the unit reduces the amount of wiring required between the drive cabinet and the machine axis. This decentralized arrangement is suitable for packaging lines, handling gantries, and other automated stations where installation space is limited. The combined motor and drive provide closed-loop speed and torque regulation without requiring a separate inverter inside the main control cabinet.

The drive operates from a **DC 750 V** intermediate circuit supplied through a single **hybrid connector**. This connector carries power, feedback, and network signals through one pluggable interface, reducing the number of separate cable connections. Heat from the embedded inverter is removed through **natural convection**, eliminating the need for cooling fans. The motor has a frame size of **071** and uses winding code 35 to provide the required electromagnetic characteristics. Its **C-length housing** provides additional axial space for the integrated electronics without changing the motor's mounting pitch. The unit is part of design version 1 and Series 2, and it has a basic performance level.

The feedback system uses a **Hiperface encoder** that produces **128 signal periods** during each mechanical revolution. Its single-turn absolute format provides the shaft position within one revolution, making it suitable for point-to-point axes that do not require position tracking across multiple turns. Commands and diagnostic data are transferred through a Multi-Ethernet interface that supports EtherNet/IP, PROFINET, or EtherCAT communication.

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Mechanical power is transmitted through a plain shaft fitted with a shaft seal, which helps protect the motor bearings from external contaminants. The motor does not include a holding brake, so vertical or suspended loads require an external method of restraint when drive torque is unavailable. Integrated safety technology is not included, so functions such as Safe Torque Off or Safe Stop 1 must be provided by higher-level controls.

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:**	Single-turn	**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:**	11/08/2026 8:02 PM

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