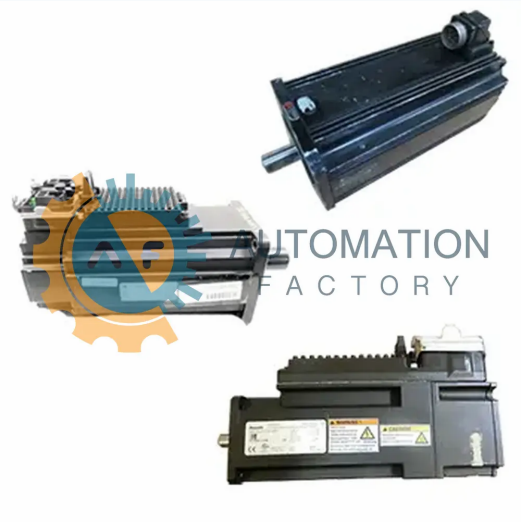
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-071C-35N-M1-HG0-ET-S3-D7-TO-FW



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The **KSM02.1B-071C-35N-M1-HG0-ET-S3-D7-TO-FW** is manufactured by Bosch Rexroth Indramat within the KSM Motor Integrated Servo Drives series. Intended for decentralized automation, this integrated unit combines a permanent-magnet motor with drive electronics to simplify wiring and free space inside control cabinets. When installed on linear or rotary axes, it delivers closed-loop speed and position control so that packaging, printing, and handling machines can execute repeatable motion profiles without an external servo amplifier.

Electrical power is supplied through a **DC 750 V** bus that feeds the internal inverter stage and removes the need for a separate AC mains connection at the axis. Power, feedback, and safety conductors pass through a single **hybrid connector**, streamlining installation. Heat generated by the electronics is dissipated through **natural convection**, permitting cabinet-free mounting in tight spaces. A **Hiperface** interface links the controller to an optical encoder that delivers **128 signal periods** and provides multi-turn absolute feedback for high-resolution positioning. The motor has a size of 071, a length code of C, and a winding code of 35, which establish its torque capability and speed range within the KSM series. The unit is a Series 2 device with Version 1 hardware and a Basic performance level. A shaft seal helps keep contaminants away from the internal bearings.

The integrated electronics provide a **Multi-Ethernet** port that supports Sercos, EtherNet/IP, PROFINET, and EtherCAT without additional option cards. This connection carries real-time commands and operating data between the drive and the higher-level controller. Functional safety is provided by **Safe Motion** technology, which supports STO and SS1 monitoring without an SBC module. Because the drive is supplied **without a holding brake**, static

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load retention must be provided by the machine or through drive-generated torque. Motion is transferred through a **plain shaft**, allowing zero-backlash couplings to seat directly on the machined surface.

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:**	Safe Motion (without SBC)
Series:	2	**Shaft Seal:**	Yes	**Shaft Type:**	Plain shaft
Supply Voltage:	DC 750 V	**Winding Code:**	35	**Last Verified:**	11/09/2026 4:16 PM

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