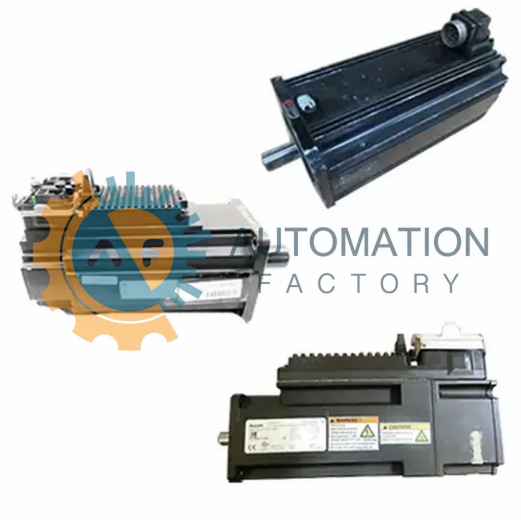
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-071C-35N-M1-HG0-ET-L3-D7-NN-FW



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The **KSM02.1B-071C-35N-M1-HG0-ET-L3-D7-NN-FW** is a motor-integrated servo drive produced by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. By combining drive electronics with a synchronous motor in a single housing, the unit simplifies cabinet wiring and shortens feedback loops in automated assembly stations, packaging lines, and material-handling axes. The assembly has a basic performance level and is intended for general-purpose positioning duties where rapid installation and decentralized control support modular machine layouts. The product represents generation 2 within the platform.

The drive is supplied through a **hybrid connector**, which carries DC bus power, signals, and network connections in one molded interface and fits a plant DC bus rated at **750 V DC**. Heat created by the embedded power stage is removed through **natural convection**, so no fans or liquid-cooling circuits are required when the unit is mounted on an open machine frame. Functional safety is provided by the integrated **Safe Torque Off (STO)** circuit, which disables motor torque without interrupting fieldbus communication. For deterministic control and higher-level diagnostics, the device supports **Multi-Ethernet communication**, allowing the control system to use EtherNet/IP, PROFINET, or EtherCAT. The enclosure includes a shaft seal and uses the standard design option. The product is design version 1.

Position feedback is provided by an **optical encoder** that supplies absolute position data over the Hiperface interface. The sensing system tracks mechanical revolutions with **multi-turn absolute capability** and provides **128 signal periods**, giving the controller detailed position data without battery backup. The motor section has a

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frame size of **071**, a length code of C, and a winding code of 35 that matches the current range of KSM drives. A plain shaft transmits torque directly to compatible couplings. The unit is supplied without a holding brake, so external clamping or drive-generated torque must maintain the load position when power is removed.

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 Torque Off (STO)
Series:	2	**Shaft Seal:**	Yes	**Shaft Type:**	Plain shaft
Supply Voltage:	DC 750 V	**Winding Code:**	35	**Last Verified:**	11/05/2026 11:11 AM

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