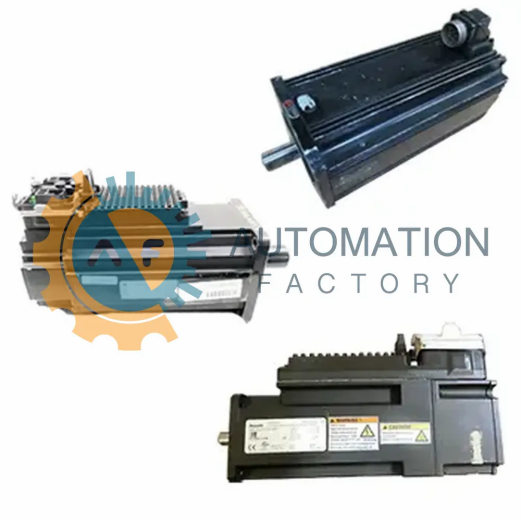
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-071C-35N-M1-HG2-ET-L3-D7-NN-FW



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The **KSM02.1B-071C-35N-M1-HG2-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 uniting power electronics, position feedback, and a permanent-magnet servo motor within one enclosure, it allows decentralized motion control close to the load. This arrangement reduces cabinet volume and simplifies cabling in industrial automation systems that require compact, distributed axes. The device mounts directly on the machine frame and is intended for applications with moderate continuous torque where quick installation and network connectivity are important.

Electrical energy is supplied through a single hybrid connector that carries DC bus power, motor phase conductors, and fieldbus lines; the drive is rated for a bus potential of **DC 750 V**. Heat is removed by **natural convection**, so no fan or liquid cooling loop is required. Position data comes from an optical encoder that communicates over the **Hiperface** interface and delivers feedback with **128 signal periods** per revolution while also maintaining a multi-turn absolute count. Command traffic is exchanged via the multiprotocol Ethernet stack identified as **Multi-Ethernet**, enabling operation on PROFINET, EtherNet/IP, or SERCOS over the same port.

The drive uses frame size **071** with length code **C**, and its magnetic characteristics correspond to winding code 35. The plain shaft is protected by a positive shaft seal, allowing the unit to work in splash zones without grease migration. The unit has design version 1 and belongs to internal series 2 and the Basic performance class. An electrically released brake with a **DC 24 V** supply holds the load when drive power is absent. Functional safety is provided by the built-in **Safe Torque Off (STO)** channel, which removes torque-producing power without affecting

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the encoder reference.

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:**	Electrically Released
Holding Brake Voltage:	DC 24 V	**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:	11/10/2026 9:22 AM				

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