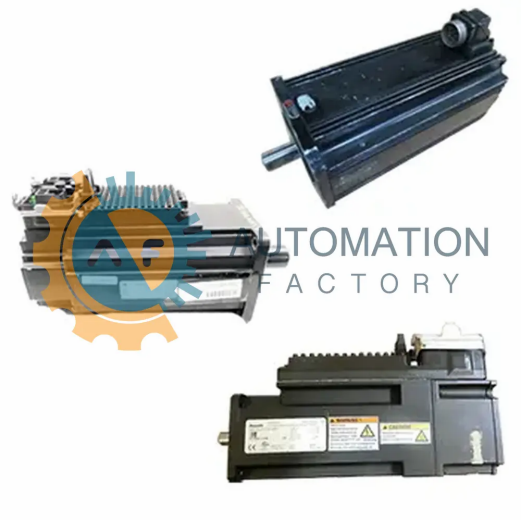
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-071C-24N-M1-HG2-ET-L3-D7-NN-FW



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The **KSM02.1B-071C-24N-M1-HG2-ET-L3-D7-NN-FW** is produced by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. This motor-integrated servo drive merges a servo motor, encoder, and power electronics into one compact unit, allowing direct mounting on moving axes so control cabinets can be smaller. In automated assembly, packaging, and handling systems, it supplies decentralized motion control while remaining connected to the plant's DC bus and field network.

The drive accepts a supply of **DC 750 V**, enabling it to share energy with other axes over a common link and reclaim braking power. Heat is removed through **natural convection**, so no fans or external cooling circuits are required. A single **hybrid connector** carries DC power, safety wiring, and communication lines, which simplifies installation on modular machine frames. Command and diagnostic data reach the controller by means of **Multi-Ethernet**; the internal electronics automatically select PROFINET, EtherNet/IP, or EtherCAT according to the network master. Rotor position is relayed through a **Hiperface** interface, which carries digital position information and electronic nameplate data to the drive's control section.

An **electrically released holding brake** secures the plain shaft when power is removed and disengages when supplied with **DC 24 V**. Functional safety is provided by the integrated **Safe Torque Off (STO)** circuit, which interrupts gate signals to the power stage without affecting auxiliary supplies. The optical encoder delivers **128 signal periods** per revolution and stores multi-turn information, supporting absolute feedback after power cycles. A shaft seal protects the internal bearings, and the plain shaft facilitates coupling to gearboxes. The motor

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has a 071 frame, length code C, and winding code 24. The unit is the standard design option and has Version 1, a basic performance level, and Series 2 classification within the KSM family.

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:**	24
Last Verified:	11/05/2026 12:06 AM				

Contact Us

1620 Old Apex Road, Cary, NC 27513, USA

Toll Free: 1-888-551-3082

International: 1-919-443-0207

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