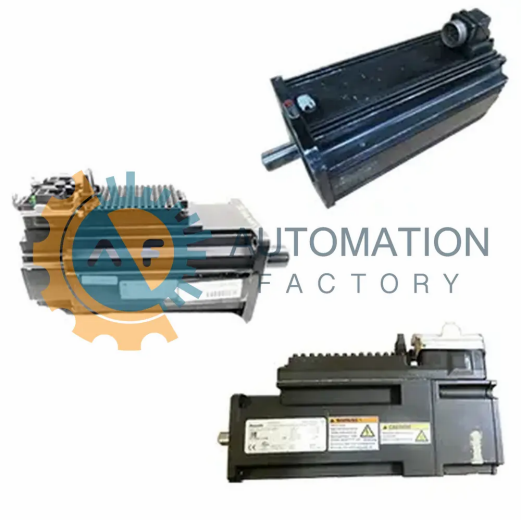
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-071C-24N-S1-HG0-ET-L3-D7-NN-FW



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The **KSM02.1B-071C-24N-S1-HG0-ET-L3-D7-NN-FW** is a motor-integrated servo drive from the Bosch Rexroth Indramat KSM Motor Integrated Servo Drives series. By combining a permanent-magnet synchronous motor with an embedded inverter, the unit provides decentralized axis control directly on machine frames. It is intended for compact handling modules, packaging stations, and other automation tasks where cabinet space is limited and wiring must be minimized. This integrated arrangement reduces the number of separate drive components installed inside the control cabinet.

The drive operates at a bus voltage of **DC 750 V**, allowing it to receive power from a shared intermediate circuit without an additional transformer. Power, feedback, and fieldbus conductors terminate at a single **hybrid connector**, simplifying daisy-chain installations and reducing separate cable runs. Thermal losses are dissipated through **natural convection**, allowing installation without fans or liquid cooling. Position feedback is generated by a **Hiperface optical encoder** that produces **128 signal periods** per revolution and supports smooth velocity control at low speeds. The encoder uses single-turn optical scanning, which resists magnetic interference and provides absolute position information within each mechanical revolution. The motor has standard design option 1, winding code 24, and motor length C. Its plain shaft includes a shaft seal that helps prevent oil and contaminants from reaching the internal components when the motor is coupled to an external gear stage.

Functional connectivity is provided by **Multi-Ethernet**, enabling the axis to communicate through Sercos III, EtherNet/IP, or PROFINET with the appropriate protocol configuration. Integrated safety supports **Safe Torque Off**

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(STO), which disables the drive output stages without requiring external contactors. The housing has a size of**071** and uses the basic performance level assigned to internal series 2. The compact housing supports installation near the driven axis, reducing the distance between the motor and the connected machine components. The unit is supplied **without a holding brake**, so applications requiring shaft locking after power removal must use an external brake on the load side. The sealed shaft interface also supports installation where nearby gear stages or machine processes could expose the output area to oil or debris.

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:**	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:**	Safe Torque Off (STO)
Series:	2	**Shaft Seal:**	Yes	**Shaft Type:**	Plain shaft
Supply Voltage:	DC 750 V	**Winding Code:**	24	**Last Verified:**	11/09/2026 3:51 AM

Contact Us

1620 Old Apex Road, Cary, NC 27513, USA

Toll Free: 1-888-551-3082

International: 1-919-443-0207

Fax: 1-919-867-6204

Email: sales@wakeindustrial.com

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