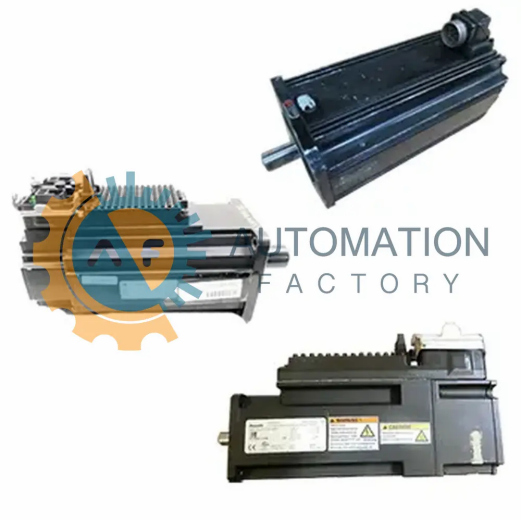
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-071C-24N-M1-HG0-ET-S3-D7-NN-FW



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The **KSM02.1B-071C-24N-M1-HG0-ET-S3-D7-NN-FW** is a motor-integrated servo drive produced by Bosch Rexroth Indramat and assigned to the KSM Motor Integrated Servo Drives series. By embedding the power electronics directly on the motor, the unit controls torque and position at the point of use, which is valuable in distributed industrial automation where panel space and cable runs must be minimized. This model supports a basic performance level suited to mid-range motion tasks.

The drive section is energized from a **750 VDC intermediate circuit**, matching the voltage supplied by IndraDrive power supplies in modular machine layouts. Signals and power reach the device through a **hybrid connector**, so a single cable carries DC bus power, 24 V auxiliary power, safety signals, and Ethernet communication, simplifying routing along moving drag chains. Heat generated by the embedded inverter is dissipated through **natural convection**, allowing installation on stationary or mobile axes without fans. Rotor feedback is processed through a **Hiperface interface**. The optical sensor delivers **128 signal periods per mechanical revolution**, providing fine interpolation for smooth velocity control. The C-length stator uses winding code 24 and is paired with the 071 frame size, providing torque characteristics suited to compact actuators. The product is part of series 2 and uses design version 1 with the standard mechanical option set.

Deterministic motion commands arrive over **Multi-Ethernet**, enabling the device to join Sercos III, EtherNet/IP, or PROFINET networks without hardware changes. Position is measured by a **multi-turn absolute encoder**, allowing the controller to retain the axis position after a power loss without requiring a new homing cycle. The motor is

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supplied without a holding brake, so stationary loads must be secured through drive torque or an external mechanism when necessary. The output uses a **plain shaft with a shaft seal**, which helps prevent lubricant migration into the workspace. Functional safety reaches PL d through **Safe Motion without SBC** monitoring, supporting controlled safety functions on auxiliary pick-and-place stations. The integrated architecture reduces the number of separate drive components installed in the control cabinet and shortens the motor power connection between the inverter and stator.

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 Motion (without SBC)
Series:	2	**Shaft Seal:**	Yes	**Shaft Type:**	Plain shaft
Supply Voltage:	DC 750 V	**Winding Code:**	24	**Last Verified:**	11/10/2026 12:33 AM

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