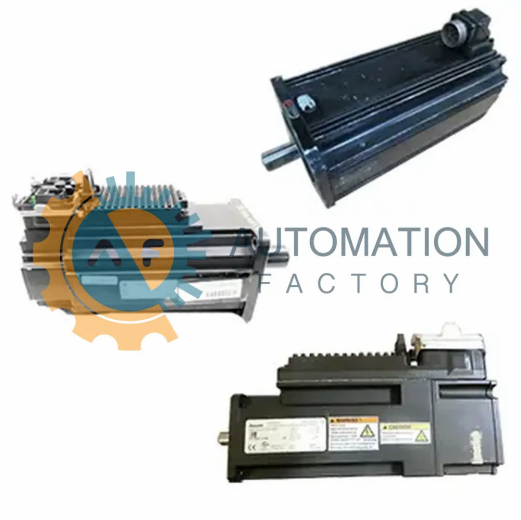
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-071C-24N-S1-HP0-ET-NN-D7-NN-FW



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The **KSM02.1B-071C-24N-S1-HP0-ET-NN-D7-NN-FW** is a motor-integrated servo drive manufactured by Bosch Rexroth Indramat within the KSM Motor Integrated Servo Drives series. It combines a 071-frame motor of length C with drive electronics, allowing motion control hardware to be mounted directly on a machine axis. The unit belongs to internal series 2 and uses the standard design option with a basic performance level. This decentralized arrangement reduces the amount of drive equipment required inside the control cabinet. The unit is supplied without a holding brake, so an external mechanism or drive-applied torque must retain the load when necessary. It also has no integrated safety technology, requiring safety functions to be provided elsewhere in the machine system.

The drive connects through a single **hybrid connector** that carries DC power, feedback, and network signals, simplifying machine wiring. A nominal bus voltage of **DC 750 V** powers the inverter stage and supports efficient power distribution to decentralized axes. Heat is removed through **natural convection**, so the enclosure dissipates thermal energy without built-in fans. Position feedback is transmitted through a **Hiperface interface**, which carries incremental and absolute position data from the optical encoder to the control loop. The encoder tracks the motor shaft over **128 signal periods** per mechanical revolution, providing the resolution needed for velocity regulation and commutation. Design version 1 and the standard cooling profile establish the applicable housing arrangement and operating limits.

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The internal controller exchanges cyclic data with the PLC through a **Multi-Ethernet port** that supports multiple real-time Industrial Ethernet protocols. Absolute rotor position is measured in a **single-turn format**, providing the angular position within one mechanical revolution after startup. This feedback arrangement is suitable for axes that return to a known reference position during each operating cycle. Output torque is transferred through a **shaft with a keyway**, providing positive engagement with a compatible coupling, pulley, or gearbox. A shaft seal helps protect the bearing area from moisture and contaminants when the drive is installed near washdown processes. The motor uses **winding code 24** for its electromagnetic configuration, while the 071 frame provides the associated rotor inertia and mechanical envelope.

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:**	Without safety technology
Series:	2	**Shaft Seal:**	Yes	**Shaft Type:**	Shaft with keyway
Supply Voltage:	DC 750 V	**Winding Code:**	24	**Last Verified:**	11/08/2026 11:11 AM

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