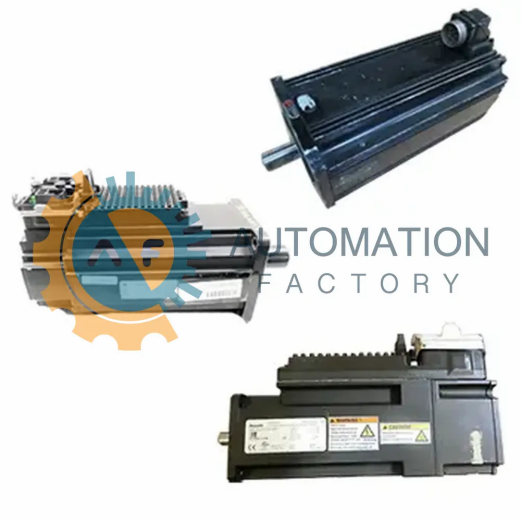
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-071C-24N-M1-HG2-ET-S3-D7-NN-FW



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The **KSM02.1B-071C-24N-M1-HG2-ET-S3-D7-NN-FW** is a motor-integrated servo drive produced by Bosch Rexroth Indramat as part of the KSM Motor Integrated Servo Drives series. It combines a permanent-magnet motor, Version 1 control electronics, and a Series 2 design in one housing. This integrated arrangement allows the unit to receive control commands, generate torque, and return position data without a separate cabinet-mounted inverter. Its 071 frame and C motor length provide a compact package for controlled feed axes in automated machinery.

A single cable with a **hybrid connector** carries DC power, fieldbus signals, and brake conductors, simplifying routing through drag chains and machine frames. The inverter section operates from a shared **DC 750 V** link, allowing compatible axes to draw power from a common DC bus. Heat is dissipated through **natural convection**, so the unit does not require a fan or liquid-cooling circuit. Position data comes from an optical encoder that provides **128 signal periods** per mechanical revolution through a **Hiperface interface**. The encoder also supports absolute multi-turn position tracking, allowing the controller to retain axis position information across multiple shaft revolutions. Motion commands and operating data are exchanged through a **Multi-Ethernet port** that supports compatible real-time Ethernet protocols.

The mechanical output uses a **plain shaft with a shaft seal**, allowing clamping couplings to be installed while helping protect the bearing area from oil or coolant. An **electrically released brake** clamps the shaft when control power is removed and disengages when **DC 24 V** is applied through the hybrid cable. Winding code 24 identifies the electrical configuration used with the 071 frame and C motor length. The unit has a basic performance level and

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includes Safe Motion technology without Safe Brake Control. Supported safety functions include Safe Torque Off and Safe Stop 1 for applications that require controlled drive shutdown. The standard design option keeps the housing compatible with the mounting arrangement used for this motor-integrated drive series.

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 Motion (without SBC)	**Series:**	2	**Shaft Seal:**	Yes
Shaft Type:	Plain shaft	**Supply Voltage:**	DC 750 V	**Winding Code:**	24
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