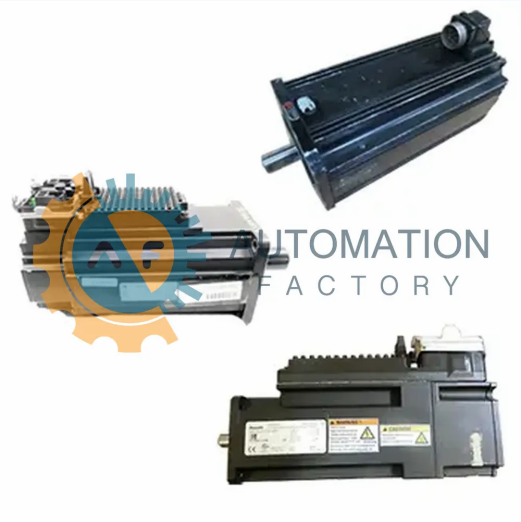
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-071C-24N-M1-HP0-ET-S3-D7-TO-FW



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The **KSM02.1B-071C-24N-M1-HP0-ET-S3-D7-TO-FW** is manufactured by Bosch Rexroth Indramat and belongs to the KSM Motor Integrated Servo Drives series. This motor-integrated servo drive combines a 071-frame synchronous motor with a drive electronics module, creating a compact axis that can be mounted directly on machinery. By locating the power electronics on the motor, the unit reduces cabinet wiring and brings motion control closer to the load, which is useful in conveyor segments, pick-and-place gantries, and assembly fixtures.

The unit is powered by a **DC 750 V** intermediate circuit, so bus distribution can feed multiple drives without separate AC rectifiers. A single **hybrid connector** carries power, safety I/O, and Multi-Ethernet communication, simplifying daisy-chain layouts. Heat is removed through **natural convection**, so the housing requires free air circulation rather than forced airflow. Position feedback is supplied by a **Hiperface** optical encoder that generates **128 signal periods** per mechanical revolution, giving the controller fine interpolation for smooth velocity control. The Multi-Ethernet output coupling option allows the embedded drive to communicate through PROFINET, EtherNet/IP, and EtherCAT without module changes.

The feedback device is a **multi-turn absolute encoder**, so the drive tracks shaft position across power cycles and supports machine restarts without homing. Torque is transmitted through a **shaft with a keyway**, and a shaft seal is fitted to limit the ingress of coolant or dust. The axis supports certified functional safety through the **Safe Motion package without SBC**, enabling safe motion functions through the integrated control architecture. The motor has size 071, length C, and winding code **24**, a combination suited to basic-performance duties. The unit is design

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version 1 of Series 2 and is supplied without a holding brake, so stationary loads must be secured by drive torque or an external clamping mechanism.

Specifications

Connection Type:	Hybrid Connector	**Cooling Type:**	Natural convection	**Design Option:**	Multi-Ethernet output coupling
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:**	Shaft with keyway
Supply Voltage:	DC 750 V	**Winding Code:**	24	**Last Verified:**	11/09/2026 7:02 AM

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