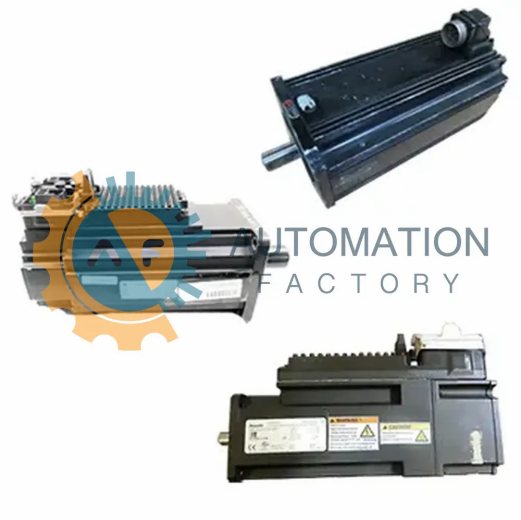
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-071C-35N-M1-HG2-ET-S3-D7-NN-FW



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The **KSM02.1B-071C-35N-M1-HG2-ET-S3-D7-NN-FW** is a motor-integrated servo drive built by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. By combining a permanent-magnet synchronous motor with an onboard inverter and fieldbus electronics, the unit delivers decentralized axis control for packaging machines, pick-and-place modules, and other distributed automation tasks. This integration reduces control-cabinet wiring and shortens feedback paths in multi-axis cells. The compact arrangement also places the motor control electronics close to the driven axis, reducing the number of separate components installed throughout the machine.

Electrical power is supplied through a high-energy DC link rated at **DC 750 V**, so the drive can share a common bus with other IndraDrive axes and return braking energy to the shared link. The electromechanical section uses frame size **071** with rotor stack length code **C**. This combination provides a compact housing for tight mounting spaces while supporting the flange dimensions and continuous torque class associated with the motor. Rotor position is captured by an optical encoder that delivers **128 signal periods** per mechanical revolution, allowing precise speed and position control. The encoder communicates through the **Hiperface** interface, which carries absolute position data and motor information to the internal controller.

Thermal management relies on **natural convection**, and the aluminum body dissipates heat without fans. This cooling method reduces the number of moving components and does not require an external liquid-cooling circuit. An electrically released holding brake rated at **DC 24 V** secures vertical or load-bearing axes when power is removed and connects through the unit's power interface. Integrated networking supports **Multi-Ethernet**

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communication, enabling real-time motion commands over SERCOS III, EtherNet/IP, or PROFINET without additional gateway hardware. The drive includes **Safe Motion without SBC** technology, which supports safe stopping and limited-speed monitoring directly within the axis controller. This safety configuration does not include Safe Brake Control, so brake-related safety functions must be handled separately when required by the application.

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:**	35
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