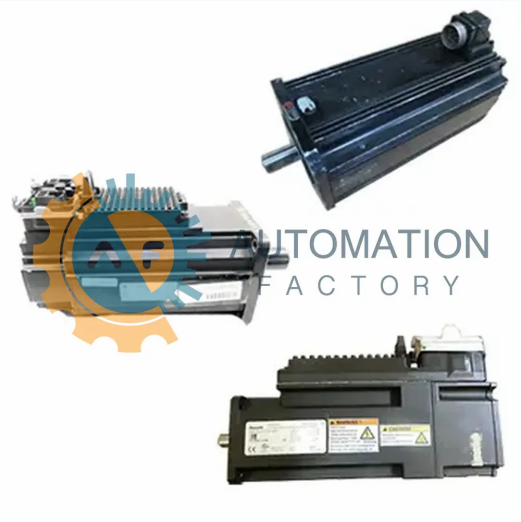
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-071C-35N-M1-HP0-ET-S3-D7-TO-FW



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The **KSM02.1B-071C-35N-M1-HP0-ET-S3-D7-TO-FW** is a motor-integrated servo drive produced by Bosch Rexroth Indramat within the KSM Motor Integrated Servo Drives series. The unit combines a synchronous motor, feedback system, power stage, and fieldbus node in one compact assembly, allowing decentralized motion control directly at the machine axis. Designed for distributed automation architectures, it regulates torque, speed, and position without a separate panel-mounted inverter. This arrangement reduces cabinet space and installation complexity in conveying, packaging, and assembly lines.

Electrical power is supplied to the drive over a DC link rated at **750 V DC**, allowing it to connect to the common high-voltage bus shared by other IndraDrive components. Power, feedback, and brake leads are combined in a single **hybrid connector**, which simplifies field wiring and maintains shielding continuity. Heat generated by the inverter is removed through **natural convection**. No fans are installed, so sufficient vertical mounting clearance is needed to maintain airflow around the housing. Rotor position is captured by an optical encoder that uses the **Hiperface protocol** and provides **128 signal periods** per mechanical revolution for precise commutation. Mechanical output is provided through **a shaft with a keyway**, and a shaft seal helps prevent dust or fluid from entering at the flange.

The integrated controller transmits process data through the Multi-Ethernet output coupling associated with Design Option M1 and communicates with a master over the same channel, eliminating the need for separate gateways. Position feedback retains absolute position information through a **multi-turn absolute encoder**. The drive

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supports **Safe Motion without SBC** and has a **Basic performance level**. The motor has a size of 071, a length of C, and winding code 35. The unit is design version 1 and belongs to hardware series 2. The assembly does not include a holding brake, so an external brake or another suitable restraint is required to secure vertical loads when drive torque is unavailable.

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:**	35	**Last Verified:**	11/08/2026 11:16 AM

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