Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-071C-35N-M3-HP2-ET-NN-D7-NN-FW



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The **KSM02.1B-071C-35N-M3-HP2-ET-NN-D7-NN-FW** is a motor-integrated servo drive produced by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. By embedding power electronics directly on the 71 mm frame motor, the unit delivers torque control, position control, and field communication from a single enclosure. It is intended for decentralized motion axes in material-handling, packaging, and small assembly cells where cabinet space is limited and wiring density must be minimized.

The drive accepts a supply bus of **DC 750 V** through a single-cable **hybrid connector** that carries power and communication lines. Internal components are cooled by **natural convection**, so no fans or liquid-cooling circuits are required. Network traffic is handled by the integrated **Multi-Ethernet interface**, enabling connections to EtherNet/IP, PROFINET, or EtherCAT masters without additional gateways. The motor has a size of **071** and a length code of C. Its standard geometry supports direct flange mounting to compatible gearboxes or linear stages. The unit uses design version 1, the standard design option, and the Basic performance level. A shaft seal helps protect the motor interior from contaminants, while the keyed output shaft provides positive torque transmission to the connected machine element.

Position feedback is generated by a **Hiperface encoder** that combines sine-cosine tracks with a **capacitive scanning method**, helping it maintain feedback performance when exposed to oil or dust deposits. The encoder stores position across as many as 4,096 revolutions with a **multi-turn absolute counter** built into the rotor hub. Each turn provides 16 signal periods for fine interpolation by the controller. A spring-applied, electrically released

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brake rated at **DC 24 V** holds the shaft when power is removed, preventing load drift on vertical or suspended axes. Winding code 35 pairs the motor with compatible converters from the IndraDrive platform for continuous torque delivery within the unit's thermal limits.

Specifications

Connection Type:	Hybrid Connector	**Cooling Type:**	Natural convection	**Design Option:**	Standard
Design Version:	1	**Encoder Interface:**	Hiperface	**Encoder Resolution:**	16 signal periods
Encoder Technology:	Capacitive	**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:	Without safety technology	**Series:**	2	**Shaft Seal:**	Yes
Shaft Type:	Shaft with keyway	**Supply Voltage:**	DC 750 V	**Winding Code:**	35
Last Verified:	11/10/2026 9:27 AM				

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