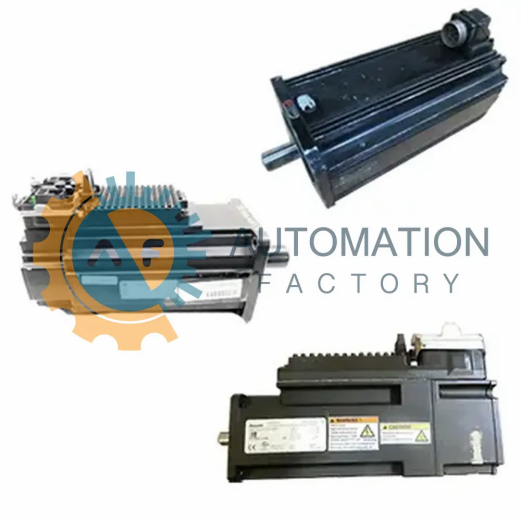
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-041C-42N-M3-HP2-ET-NN-D7-NN-FW



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The **KSM02.1B-041C-42N-M3-HP2-ET-NN-D7-NN-FW** is produced by Bosch Rexroth Indramat as part of the KSM Motor Integrated Servo Drives series. This motor-integrated servo drive combines the servomotor, drive inverter, and fieldbus electronics in a single enclosure for decentralized installation. Frame size 041 and length code C establish its mechanical envelope, while design version 1 aligns its mounting points with other Series 2 units. Used in packaging, handling, and conveyor systems, the drive supplies closed-loop positioning and speed control without a separate cabinet-mounted controller.

The axis is powered from a **DC 750 V** bus link that is shared with other drives in the machine. All power, feedback, and brake circuits pass through a single **hybrid connector**, shortening wiring runs on articulating axes. Thermal energy is dissipated by **natural convection**, permitting fanless operation in enclosed machinery. Rotor position is measured through a **Hiperface** interface that works with a **capacitive sensor**, providing 16 signal periods per revolution. Because the feedback system is **multi-turn absolute**, the shaft position is retained after the main power is removed, simplifying homing sequences.

Control data and diagnostics travel over the **Multi-Ethernet** master communication port, which supports several real-time industrial Ethernet protocols selected through software settings. A spring-applied, electrically released brake energized at **DC 24 V** holds the shaft when the drive is disabled, helping prevent movement on vertical or suspended loads. Mechanical output is provided by a **shaft with a keyway**, and a shaft seal blocks lubricants or contaminants from entering the motor cavity. The unit uses the standard design option and basic performance class

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without integrated safety functions. Its decentralized layout reduces the need to route separate motor and feedback cables back to a central drive cabinet.

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:	041	**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:**	42
Last Verified:	11/09/2026 4:31 AM				

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