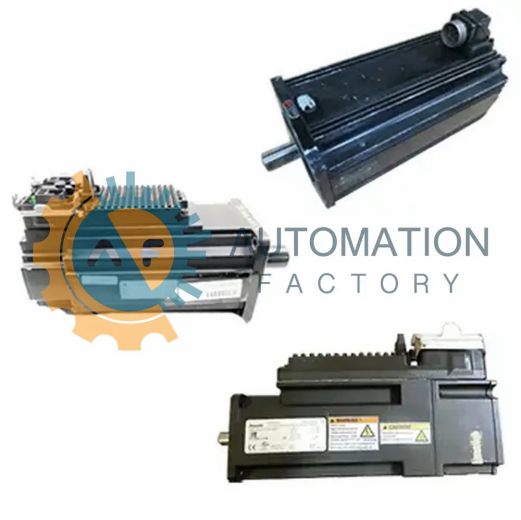
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

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



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The **KSM02.1B-041C-42N-M3-HP2-ET-NN-D7-TO-FW** is a motor-integrated servo drive manufactured by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. By combining drive electronics and a synchronous motor within one housing, the unit provides decentralized axis control for conveyors, pick-and-place modules, and packaging machinery. The integrated arrangement reduces the amount of wiring between the control cabinet and the motor while supporting closed-loop control directly at the machine. The device has a Basic performance level and belongs to Series 2.

This drive accepts a supply bus of **DC 750 V** and distributes power through a single **hybrid connector** that carries power, control, and network signals. Heat produced during operation is dissipated by **natural convection**, so no external fans or liquid cooling circuits are required. Communication with the master controller uses the Multi-Ethernet option contained in the housing. Drive-side feedback relies on a **Hiperface interface** that provides **16 signal periods** per electrical revolution. The motor has a size of 041 and a length of C, while winding code 42 indicates the electromagnetic configuration. Design Version 1 supports the Multi-Ethernet output coupling.

An **electrically released holding brake** rated at **DC 24 V** secures the shaft when power is removed, allowing vertical loads to remain stationary. Absolute position data are stored by a **multi-turn absolute encoder** that uses capacitive sensing and retains position information across operating cycles. This feedback allows the drive to determine the axis position after power is restored without requiring a complete homing movement. Torque is transmitted through a **shaft with a keyway**, providing positive engagement with a compatible coupling or driven

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component. A factory-installed shaft seal helps prevent dust or coolant from entering around the mechanical output. The unit does not include integrated safety functions, so external STO or SIL equipment must be used when required by the machinery's safety system.

Specifications

Connection Type:	Hybrid Connector	**Cooling Type:**	Natural convection	**Design Option:**	Multi-Ethernet output coupling
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:	11/08/2026 3:42 PM				

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