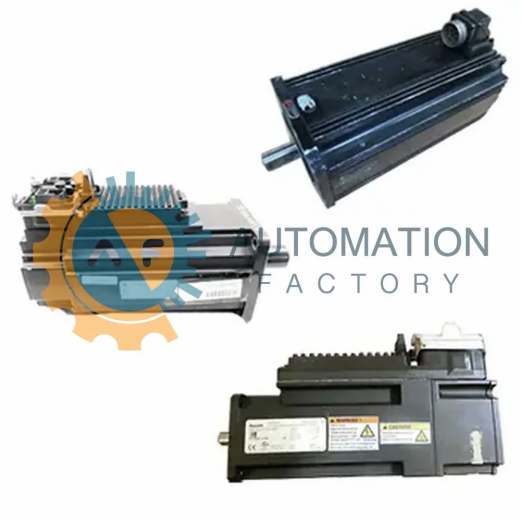
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-041C-42N-M1-HP2-ET-NN-D7-TO-FW



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The **KSM02.1B-041C-42N-M1-HP2-ET-NN-D7-TO-FW** is manufactured by Bosch Rexroth Indramat and belongs to the KSM Motor Integrated Servo Drives series. As a motor-integrated servo drive, it combines torque generation, position feedback, and drive electronics in one housing, allowing a single compact unit to be mounted directly on a moving axis. Its 041 frame size and C-length stator suit low-to-medium-power actuators that require accurate velocity and position control in packaging lines, pick-and-place gantries, and light assembly stations.

The drive section receives power from a **750 V DC bus**, allowing it to share a common high-voltage link with other axis modules. Heat is removed through **natural convection**, so fans and liquid cooling connections are unnecessary when adequate ambient airflow is available. Power, feedback, and network signals pass through a single **hybrid connector**, reducing the amount of cabinet wiring and the number of separate cable connections. Rotor position is reported through the optical **Hiperface interface**, supporting digital commutation and rapid homing cycles. An **electrically released holding brake** engages when the 24 V control supply is removed, securing the load during shutdown. The motor uses **winding code 42**, which corresponds to the current and back-EMF characteristics required by the integrated drive electronics.

For machine control, the unit provides a **Multi-Ethernet communication port** that can support EtherNet/IP, PROFINET, EtherCAT, or SERCOS without changes to the installed communication hardware. The optical encoder delivers **128 signal periods per mechanical revolution**, providing the feedback resolution needed for controlled motion. Its multi-turn counter retains the absolute position after a loss of power, reducing the need to repeat a

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reference movement when operation resumes. Mechanical output is transferred through a **shaft with a keyway**, providing positive torque transmission to pulleys, couplings, or gearboxes. A built-in shaft seal helps prevent lubricant migration and limits the entry of contaminants around the shaft opening. The drive operates at a basic performance level intended for standard position, velocity, and torque-control functions in industrial automation systems.

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:**	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:	11/07/2026 10:06 PM				

Contact Us

1620 Old Apex Road, Cary, NC 27513, USA

Toll Free: 1-888-551-3082

International: 1-919-443-0207

Fax: 1-919-867-6204

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