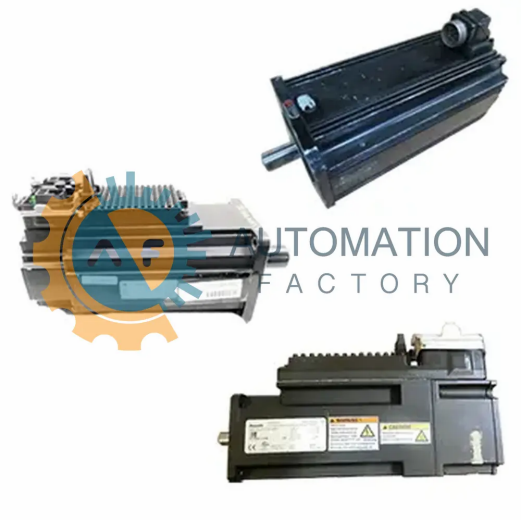
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-041C-42N-S3-HG2-ET-NN-D7-NN-FW



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The **KSM02.1B-041C-42N-S3-HG2-ET-NN-D7-NN-FW** is manufactured by Bosch Rexroth Indramat as part of the KSM Motor Integrated Servo Drives series. This motor-integrated servo drive places power electronics, feedback components, and a brushless servo motor in one housing, allowing decentralized axes to be mounted directly on machinery without a separate cabinet inverter. It is intended for position-controlled motion tasks in packaging, material handling, or small assembly cells where compact installation and reduced wiring are priorities.

The drive connects to the DC bus at **750 VDC**, giving the internal converter sufficient headroom for fast torque transients. Power, feedback, and I/O connections share a single **hybrid connector**, simplifying installation and minimizing cable loops between moving modules. Heat is removed through **natural convection**, so no fans or liquid lines are required. Position feedback is transmitted through a **Hiperface interface**. Its capacitive single-turn encoder produces **16 signal periods** per mechanical revolution, allowing high-resolution interpolation in the controller. The motor has length code C and winding code 42. Its plain shaft includes an integral shaft seal that helps prevent contaminants from reaching the internal components.

An **electrically released holding brake** rated at **24 VDC** secures the load when the DC link is disabled, eliminating the need for external clamps on vertical axes. Command and diagnostic data travel over the **Multi-Ethernet master interface**, enabling the unit to connect to EtherCAT, PROFINET, or EtherNet/IP networks without changes to its communication hardware. The physical frame size is indicated by code **041**, which provides a compact profile for installation near the driven mechanism. The drive has a basic performance level and belongs to

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design version 1 and series 2. It does not include integrated safety technology, so required safety functions must be provided elsewhere in the machine control system.

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:**	Single-turn	**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:	Plain shaft	**Supply Voltage:**	DC 750 V	**Winding Code:**	42
Last Verified:	11/10/2026 1:49 AM				

Contact Us

1620 Old Apex Road, Cary, NC 27513, USA

Toll Free: 1-888-551-3082

International: 1-919-443-0207

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