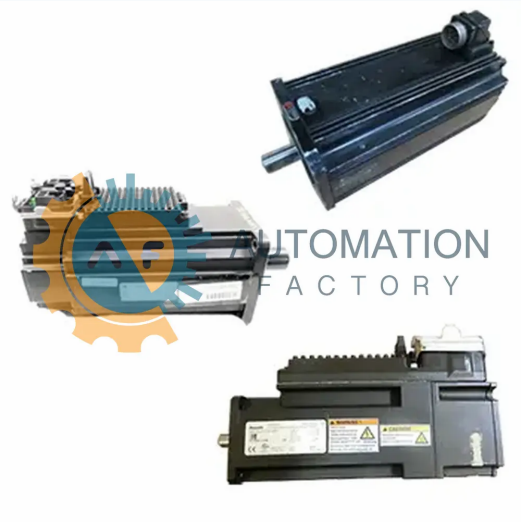
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-041C-42N-M3-HP0-ET-NN-D7-NN-FW



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The **KSM02.1B-041C-42N-M3-HP0-ET-NN-D7-NN-FW** is a motor-integrated servo drive produced by Bosch Rexroth Indramat for decentralized motion tasks in the KSM Motor Integrated Servo Drives series. It combines controller electronics and a permanent-magnet synchronous motor in one housing. This integrated arrangement reduces cabinet wiring while providing closed-loop control of torque, speed, and position. The unit is intended for compact machinery, transport modules, moving carriages, and gantry axes in industrial automation systems.

The unit uses a **hybrid connector** for power, signal, and fieldbus routing, simplifying daisy-chain layouts on modular production lines. Its power stage accepts a **750 V DC link**, allowing the drive to be installed remotely from the converter without a separate AC mains connection. Command and diagnostic traffic passes through **Multi-Ethernet**, with software-selectable support for SERCOS III, EtherNet/IP, PROFINET, or EtherCAT. Heat from the servo electronics is dissipated through **natural convection**, eliminating the need for cooling fans. Frame code **041** indicates the stator diameter and continuous torque class. The assembly has motor length C and winding code 42. It is a Series 2 product with design version 1, a standard build option, and a basic performance level.

The integrated feedback system uses a resolver-based scale with **16 signal periods**, which is read by a **capacitive sensor head**. Its Hiperface channel provides absolute rotor position within one revolution, while a **multi-turn absolute counter** retains position data across multiple revolutions. Mechanical output is provided by a **shaft with a keyway**, allowing direct engagement with keyed couplings. An installed shaft seal helps prevent contaminants from entering the motor interior. The drive is supplied without a holding brake, so an external mechanism must

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secure the load when holding force is required without motor torque. No internal safety technology is installed, so functional safety functions must be provided by external equipment.

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:**	Without holding brake
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 10:09 AM

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