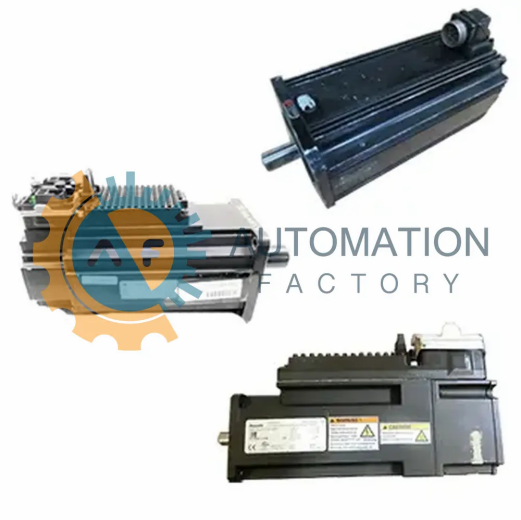
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-041C-42N-M3-HG0-ET-NN-D7-NN-FW



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The **KSM02.1B-041C-42N-M3-HG0-ET-NN-D7-NN-FW** is a motor-integrated servo drive manufactured by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. By combining a synchronous motor, inverter, and fieldbus node in one enclosure, it streamlines decentralized automation layouts and reduces the amount of equipment installed in the control cabinet. The unit belongs to internal series 2, is supplied with the standard design option, and is design version 1. Its basic performance level suits packaging, material-handling, and light assembly axes that require coordinated motion without a separate cabinet-mounted drive.

Its DC link accepts a supply of **DC 750 V**, allowing a shared bus to energize multiple axes. Heat from the power stage is removed by **natural convection**, so no fans or liquid coolers are fitted. Rotor position is detected by a capacitive sensor head that communicates over **Hiperface** and delivers **16 signal periods** per revolution. Its multi-turn absolute capability retains position data after power is removed, allowing the controller to identify the axis position when operation resumes. Command data reach the drive through a **Multi-Ethernet interface** that supports common real-time Ethernet protocols used in factory networks. The electromechanical package uses motor size 041, length code C, and winding code 42, providing moderate continuous torque within a compact footprint for moving machine elements.

Mechanical output is provided through a **plain shaft with a shaft seal**, which helps protect the internal bearings from contaminants. Power, signal, and DC bus conductors are combined in a single **hybrid connector**, reducing the number of separate connections and simplifying cable routing. The actuator is delivered **without a holding brake**,

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so an external clamping device must retain static loads after power is removed. Closed-loop torque control can hold the load while the drive remains energized. The controller operates **without integrated safety technology**, so external safety equipment must provide any required protective functions. This arrangement allows the machine safety circuit to be selected separately for the needs of the application.

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:**	Plain shaft
Supply Voltage:	DC 750 V	**Winding Code:**	42	**Last Verified:**	11/10/2026 12:37 AM

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