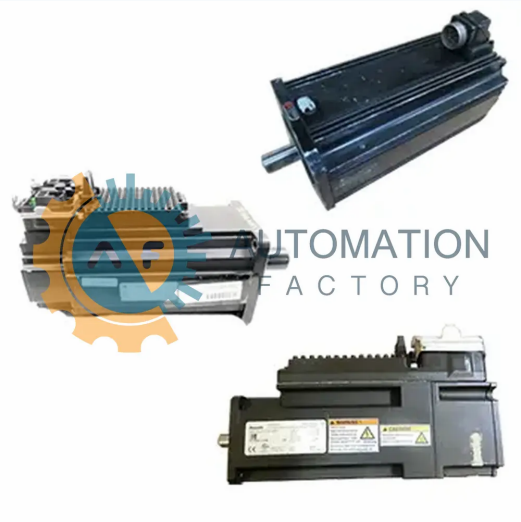
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-041C-42N-M3-HG2-ET-L3-D7-ES-FW



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The **KSM02.1B-041C-42N-M3-HG2-ET-L3-D7-ES-FW** is a motor-integrated servo drive manufactured by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. It combines a servomotor, drive electronics, and a fieldbus interface in one enclosure to provide decentralized motion control. This arrangement reduces cabinet space and shortens cable runs in automated packaging, handling, and assembly systems.

It operates from a maximum bus supply of **DC 750 V**, so the distributed drive can be powered directly from high-energy intermediate circuits without a local transformer. Thermal dissipation is handled solely through **natural convection**, eliminating forced-air components in IP-rated machine spaces. All power, signal, and safety conductors are routed through a single **hybrid connector**, which reduces installation time when multiple KSM drives are connected in a daisy chain. The controller exchanges real-time data over **Multi-Ethernet** networks and is compatible with common industrial Ethernet protocols. The motor uses winding code **42**. Combined with motor size 041 and length C, this winding provides torque and speed characteristics suitable for workstations that use the Basic performance level. The plain shaft simplifies direct coupling to gearheads or belts, and a factory-installed shaft seal protects the motor against coolant ingress.

Functional safety is provided by the integrated **Safe Torque Off (STO)** circuit, allowing drive energy to be removed without switching off the main DC bus. Position feedback is transmitted through a **Hiperface** link to a capacitive sensor that generates **16 signal periods** per mechanical revolution. The sensor records multi-turn absolute positions, so external homing routines are unnecessary. Load retention is provided by an electrically released brake

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powered at **DC 24 V**. Spring force automatically engages the brake when its supply power is removed. The device is design version 1 within Series 2 and supports Ethernet-based control with integrated safety functions.

Specifications

Connection Type:	Hybrid Connector	**Cooling Type:**	Natural convection	**Design Option:**	External master communication Multi-Ethernet
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:	Safe Torque Off (STO)	**Series:**	2	**Shaft Seal:**	Yes
Shaft Type:	Plain shaft	**Supply Voltage:**	DC 750 V	**Winding Code:**	42
Last Verified:	11/10/2026 7:19 AM				

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