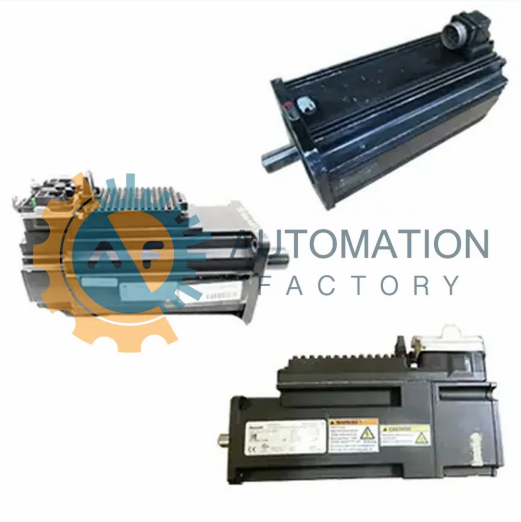
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-041C-42N-S1-HG0-ET-S3-D7-TO-FW



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The **KSM02.1B-041C-42N-S1-HG0-ET-S3-D7-TO-FW** is a motor-integrated servo drive produced by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. By combining a permanent-magnet servo motor with onboard power electronics, it mounts directly on machinery and removes the need for separate cabinet-mounted drives. The unit supplies closed-loop speed and position control for coordinated axes in automated packaging, assembly, and material-handling equipment. Electrical energy enters the unit through a shared DC link rated at **DC 750 V**.

Power, signal, and safety lines run through a single **hybrid connector**, reducing installation time and cable bulk. Heat generated by the inverter passes into the ambient air through **natural convection**, so no forced-air components are required. The position loop uses a **Hiperface** interface to transfer absolute position data from the integrated encoder. The sensor provides **128 signal periods** per revolution and uses **optical scanning** for accurate feedback. Because no holding brake is fitted, an external clamping device must secure the load when power is removed. A shaft seal helps prevent contaminants from entering the motor housing. Safe Motion functions are available without an SBC, and the drive has a Basic performance level.

The actuator follows the Series 2 mechanical layout and uses motor size **041** with length code C, providing a compact form for moderate-inertia loads. A **single-turn encoder** stores the absolute position within one revolution, supporting applications such as indexing tables and servo presses. Torque is transferred through a **plain shaft**, allowing direct connection to gears, pulleys, or suitable clamping couplings. Winding code 42 matches the motor's

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electrical characteristics to the shared DC bus. The unit is design version 1 and includes an output coupling that supports multiple real-time Ethernet protocols for synchronized motion networks.

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:**	Single-turn	**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:**	Safe Motion (without SBC)
Series:	2	**Shaft Seal:**	Yes	**Shaft Type:**	Plain shaft
Supply Voltage:	DC 750 V	**Winding Code:**	42	**Last Verified:**	11/08/2026 10:52 AM

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