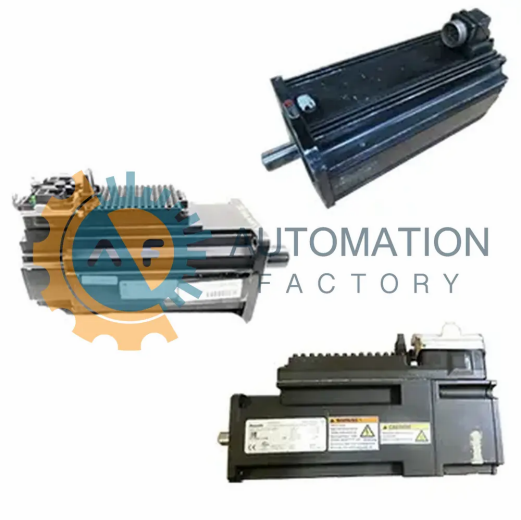
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-041C-42N-M1-HG2-ET-SD-D7-TO-FW



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Bosch Rexroth Indramat manufactures the **KSM02.1B-041C-42N-M1-HG2-ET-SD-D7-TO-FW**, a motor-integrated servo drive in the KSM Motor Integrated Servo Drives series. The device combines an AC synchronous motor, inverter, and fieldbus interface in one housing. It converts power from a regulated DC bus into controlled torque for machine axes while returning position data to the PLC over Multi-Ethernet. Mounting the electronics directly on the motor reduces cabinet wiring, shortens control loops, and saves space on gantries and modular machines used in automated packaging, handling, and assembly cells.

The drive operates from a **750 V DC** intermediate circuit that supplies the inverter with sufficient headroom for rapid acceleration during peak-load events. Power, signal, and brake lines share a single **hybrid connector**, reducing cable count and simplifying daisy-chain layouts across multiple axes. Heat is dissipated through **natural convection**, so no fans are installed and the enclosure remains sealed. Rotor position is read with a **Hiperface** optical encoder that produces **128 signal periods** per revolution, enabling precise velocity regulation at low speeds. The Multi-Ethernet communication interface in design version 1 links the axis directly to EtherNet/IP, Sercos III, or PROFINET controllers without external gateways.

A **multi-turn absolute sensor** preserves the shaft position across power cycles, eliminating the need for homing after stops. The axis is held by an **electrically released brake** that engages when its coil is de-energized. The brake coil operates with a **24 V DC** supply. Integrated **Safe Motion with SBC** provides safe torque off and speed-limiting functions without additional safety hardware. The motor has a plain shaft with a fitted shaft seal. Its motor

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size is 041, its winding code is 42, and its frame length is C. This configuration has a Basic performance level.

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:**	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 Motion (with SBC)	**Series:**	2	**Shaft Seal:**	Yes
Shaft Type:	Plain shaft	**Supply Voltage:**	DC 750 V	**Winding Code:**	42
Last Verified:	11/07/2026 10:42 PM				

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