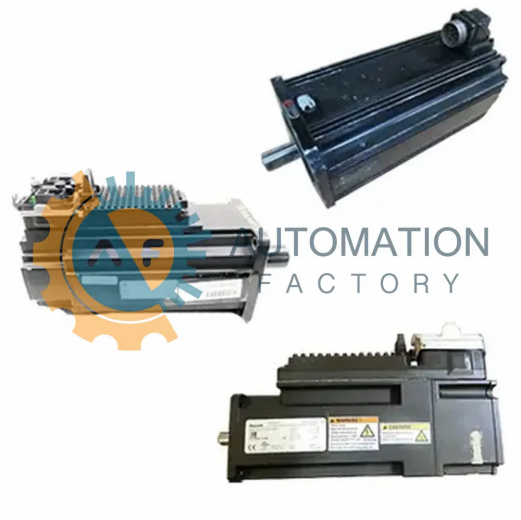
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-041C-42N-M1-HG0-ET-S3-D7-ES-FW



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The **KSM02.1B-041C-42N-M1-HG0-ET-S3-D7-ES-FW** is a motor-integrated servo drive from Bosch Rexroth Indramat that belongs to the KSM Motor Integrated Servo Drives series. It combines drive electronics with a synchronous motor in a single unit. This arrangement streamlines installation in automated assembly cells, gantry axes, and secondary packaging lines where decentralized motion control reduces cabinet space and cabling complexity.

This drive operates from a DC link of **DC 750 V**, so it can be supplied directly from IndraDrive power supplies without an intermediate transformer. Power, signal, and safety conductors share a single **hybrid connector**, which simplifies wiring and limits connection errors. Heat is removed through **natural convection**, eliminating the need for cooling fans. Rotor position is reported over the **Hiperface** interface by an optical encoder that delivers **128 signal periods** per mechanical revolution, enabling fine velocity regulation at low speeds. The motor has a frame size of 041 and a length of C. It uses winding code 42 and is produced in design version 1 with a Basic performance level. The motor is supplied without a holding brake, and a shaft seal helps keep contaminants away from the bearings.

An external controller exchanges cyclic data with the drive through **Multi-Ethernet**, allowing communication over EtherNet/IP, PROFINET, EtherCAT, or SERCOS III networks. Position feedback remains available after power loss because the encoder is a **multi-turn absolute encoder**. Mechanical power is delivered through a **plain shaft**, which allows connection to inline gearboxes or belt-drive couplings. Integrated safety follows the **Safe Motion**

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without SBC concept, allowing functions such as STO and SS1 without an external safety relay. The unit uses Series 2 electronics and includes the External master communication option.

Specifications

Connection Type:	Hybrid Connector	**Cooling Type:**	Natural convection	**Design Option:**	External master communication Multi-Ethernet
Design Version:	1	**Encoder Interface:**	Hiperface	**Encoder Resolution:**	128 signal periods
Encoder Technology:	Optical	**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:**	Safe Motion (without SBC)
Series:	2	**Shaft Seal:**	Yes	**Shaft Type:**	Plain shaft
Supply Voltage:	DC 750 V	**Winding Code:**	42	**Last Verified:**	11/07/2026 7:53 AM

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