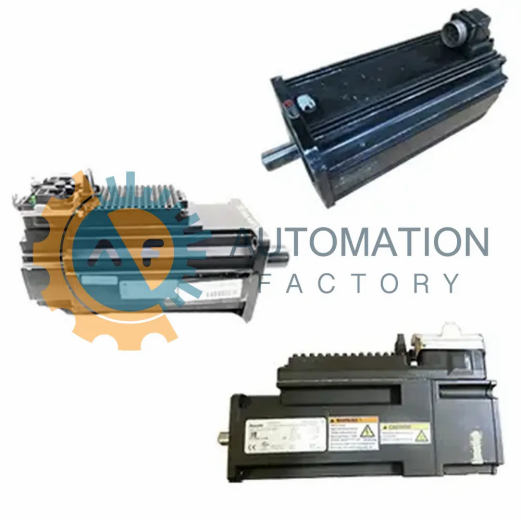
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-041C-42N-M1-HP0-ET-SD-D7-ES-FW



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The **KSM02.1B-041C-42N-M1-HP0-ET-SD-D7-ES-FW** is a motor-integrated servo drive produced by Bosch Rexroth Indramat within the KSM Motor Integrated Servo Drives series. It combines drive electronics, a motor, and feedback components in one housing. This integrated arrangement simplifies machine wiring and reduces the number of separate devices required for each axis. The unit supplies precise torque and speed control to decentralized automation axes on packaging, material-handling, and assembly lines.

The unit accepts a supply bus of **DC 750 V**, making it compatible with high-power multi-axis converters used on modular machines. Thermal management relies on **natural convection**, so extra fans or liquid circuits are unnecessary when the servo is mounted on an open frame with sufficient airflow. Communication with the controller is handled through **Multi-Ethernet** interfaces provided by the external master communication option. This interface supports PROFINET, EtherNet/IP, and Sercos without requiring hardware changes. Motion is generated by a size **041** stator combined with motor length C and winding code 42, providing medium continuous torque with moderate inertia. Rotor position is measured by a Hiperface encoder that uses **optical scanning** for reliable feedback in areas where magnetic particles may be present. The unit has a Basic performance level, series index 2, and design version 1. A shaft seal prevents lubricant migration, and the absence of a holding brake reduces weight for horizontal-axis applications.

The integrated **Safe Motion** package includes SBC and provides certified STO, SOS, and SLS monitoring without additional relays. The encoder provides **128 signal periods** per revolution for accurate position measurement. Its

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multi-turn absolute counting retains the axis position across power cycles, eliminating the need for a homing sequence after startup. Power, network, and feedback lines terminate on a hybrid connector that combines high-current pins and CAT-5e conductors in one molded shell. Output torque is transmitted through a **shaft with a keyway**, allowing direct engagement with suitable pulleys, hubs, or rigid couplings.

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 (with SBC)
Series:	2	**Shaft Seal:**	Yes	**Shaft Type:**	Shaft with keyway
Supply Voltage:	DC 750 V	**Winding Code:**	42	**Last Verified:**	11/08/2026 6:04 AM

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