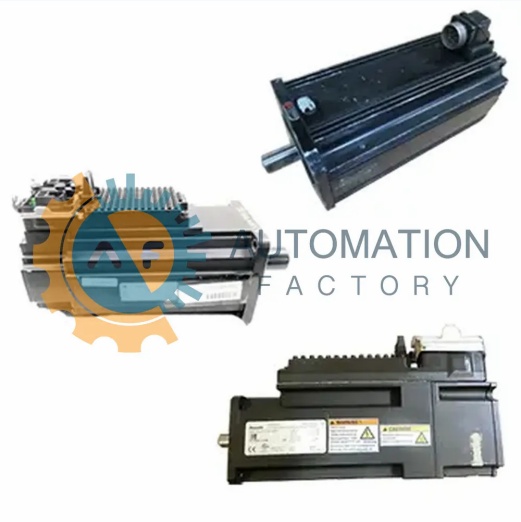
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-041C-42N-S1-HG2-ET-NN-D7-NN-FW



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The **KSM02.1B-041C-42N-S1-HG2-ET-NN-D7-NN-FW** is a motor-integrated servo drive produced by Bosch Rexroth Indramat within the KSM Motor Integrated Servo Drives series. By combining drive electronics and a permanent-magnet synchronous motor in one housing, it supports decentralized motion axes in industrial automation cells. This integrated arrangement reduces the amount of separate drive equipment required in a control cabinet and shortens power and feedback cable routes. The unit belongs to Series 2 and has the Basic performance level for mid-range positioning tasks.

Electrical power reaches the drive through a **hybrid connector** that carries DC bus power and signal lines, simplifying daisy-chain installation. It operates from a **DC 750 V supply** that is compatible with common Rexroth IndraDrive power supplies. Network control is handled by a **Multi-Ethernet communication interface** that accepts several real-time Ethernet fieldbuses without additional option cards. Heat produced by the electronics is removed through **natural convection**, so the unit does not require fans. Winding code **42** identifies the stator impedance selected for the 041 frame, while motor length C provides an extended active stack for higher continuous torque. The drive has the standard design option and Design Version 1. It does not include integrated safety technology, so required safety functions must be provided elsewhere in the machine control system.

Shaft feedback is provided by an optical encoder that communicates over **Hiperface**. Its scale provides **128 signal periods per revolution** and supports single-turn position capture for closed-loop motion control. Mechanical output is transferred through a **plain shaft** that is ground to ISO tolerances for accurate coupling alignment. A

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contact shaft seal helps prevent lubricant loss and limits the entry of contaminants around the output interface. An electrically released holding brake rated for **DC 24 V operation** clamps the rotor when brake power is removed, allowing a vertical axis to remain stationary. The 041 frame size keeps the assembly compact for pick-and-place modules, conveyor indexing tables, and auxiliary machine axes where distributed installation can reduce cable length.

Specifications

Connection Type:	Hybrid Connector	**Cooling Type:**	Natural convection	**Design Option:**	Standard
Design Version:	1	**Encoder Interface:**	Hiperface	**Encoder Resolution:**	128 signal periods
Encoder Technology:	Optical	**Encoder Turn Type:**	Single-turn	**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:	Without safety technology	**Series:**	2	**Shaft Seal:**	Yes
Shaft Type:	Plain shaft	**Supply Voltage:**	DC 750 V	**Winding Code:**	42
Last Verified:	11/08/2026 10:50 PM				

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