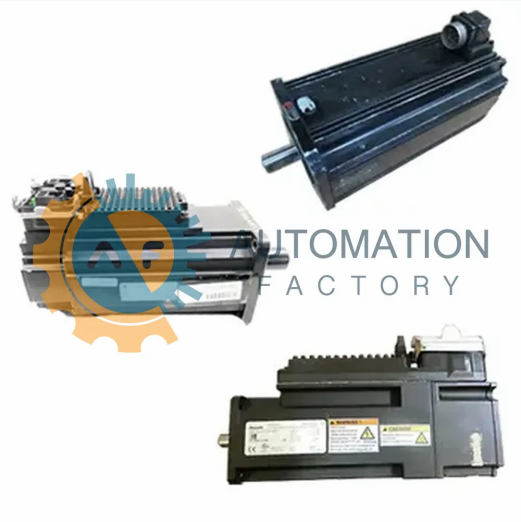
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-041C-42N-S1-HG2-ET-L3-D7-TO-FW



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The **KSM02.1B-041C-42N-S1-HG2-ET-L3-D7-TO-FW** is a motor-integrated servo drive manufactured by Bosch Rexroth Indramat within the KSM Motor Integrated Servo Drives series. By combining the drive electronics, encoder, and 041-frame synchronous motor in one enclosure, it reduces panel hardware and shortens installation time on decentralized machine modules. This configuration is intended for precise position and velocity control in automated handling, packaging, and small-parts assembly stations where space and simple wiring are critical.

For power, feedback, and safety signals, the unit employs a **hybrid connector**, allowing a single plug to handle multiple circuits and reduce the cable count. Internal heat is removed through **natural convection**, eliminating fans and permitting installation in any mounting orientation. Rotor position is captured through **Hiperface**; this interface transfers absolute and incremental data so the axis can resume motion without reference moves after power cycles. Load security is provided by an **electrically released holding brake** that clamps the shaft whenever control voltage is absent. Its coil is energized at **DC 24 V**, matching the common low-voltage supply used in industrial machinery.

The integrated inverter is powered from a shared DC link at **DC 750 V**, enabling energy recovered during braking to be redistributed to other axes on the same bus. Functional safety is provided by **Safe Torque Off (STO)**, which disconnects motor power without dropping the DC link and supports applications with a basic performance level. Mechanical output is delivered through a **plain shaft with a shaft seal**, allowing direct coupling to belts or gearheads while limiting contaminant entry. Motion commands and diagnostic data travel over **Multi-Ethernet**,

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allowing the system to use EtherNet/IP, PROFINET, or EtherCAT through software selection. The motor has length code C and winding code 42. Its optical single-turn encoder provides 128 signal periods for position feedback to the controller.

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:**	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 Torque Off (STO)	**Series:**	2	**Shaft Seal:**	Yes
Shaft Type:	Plain shaft	**Supply Voltage:**	DC 750 V	**Winding Code:**	42
Last Verified:	11/10/2026 2:03 AM				

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