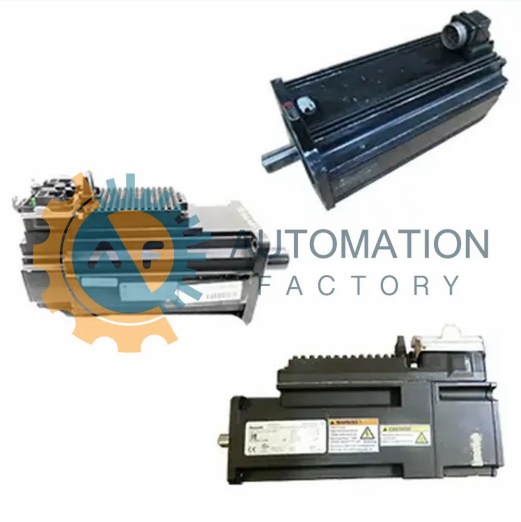
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-041C-42N-S1-HG0-ET-L3-D7-NN-FW



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The **KSM02.1B-041C-42N-S1-HG0-ET-L3-D7-NN-FW** is a motor-integrated servo drive manufactured by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. Combining a permanent-magnet synchronous motor with embedded power electronics, it mounts directly on a machine frame to form a decentralized axis. The device is a basic-performance unit in Series 2 and is released as design version 1 with the standard mechanical option. By eliminating the need for a separate cabinet-mounted inverter, it performs closed-loop position or speed control in packaging, assembly, and material-handling systems.

The drive is powered from a shared DC link at **750 V**, and all power, feedback, and safety conductors converge in a single **hybrid connector** for rapid installation. Cooling relies on **natural convection**, so no fan or liquid circuit is required. Rotor position data are transmitted through a **Hiperface interface**. Its optical encoder provides **128 signal periods** per revolution in a single-turn format, supplying fine resolution for smooth velocity control. The optical scanning principle resists magnetic interference during motion, while the shared DC connection allows the axis to operate with other KSM devices on the same power rail.

Functional safety is implemented through **Safe Torque Off (STO)**, which disconnects motor energy without cycling the control logic. Networked motion commands are exchanged through the integrated **Multi-Ethernet port**, which supports SERCOS III, EtherNet/IP, or PROFINET selection during system setup. The actuator has **motor size 041** and length code C. Output torque is delivered through a **plain shaft with a shaft seal**, which helps limit the ingress of oil and dust. The unit is supplied without a holding brake, so an external clamp must secure a vertical load when

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power is removed. Motor winding code 42 indicates the winding configuration used in this model.

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:**	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 Torque Off (STO)
Series:	2	**Shaft Seal:**	Yes	**Shaft Type:**	Plain shaft
Supply Voltage:	DC 750 V	**Winding Code:**	42	**Last Verified:**	11/07/2026 8:00 AM

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