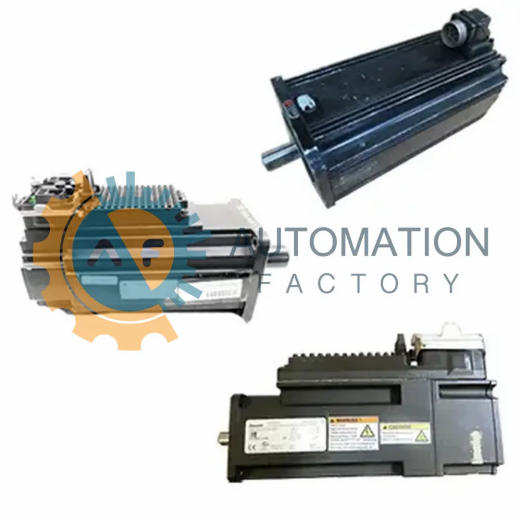
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-041C-42N-M1-HP0-ET-L3-D7-TO-FW



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The **KSM02.1B-041C-42N-M1-HP0-ET-L3-D7-TO-FW** is produced by Bosch Rexroth Indramat and belongs to the KSM Motor Integrated Servo Drives series. As a motor-integrated servo drive, it combines a permanent-magnet servomotor and inverter electronics in a single housing, providing a compact axis for decentralized motion control. This arrangement is suitable for automated packaging, material-handling, and assembly lines where distributed drives can reduce cabinet wiring and simplify machine layouts. The unit receives power from a **750 V DC intermediate circuit**, which supplies the integrated inverter and motor from a shared DC bus.

Power and fieldbus signals pass through a single **hybrid connector**, simplifying daisy-chain installation and reducing the number of separate cable connections. Thermal energy is removed through **natural convection**, so the housing requires unobstructed airflow but does not need a fan or liquid-cooling loop. The master communication interface is **Multi-Ethernet**, and its output coupling can pass Sercos III, PROFINET, EtherNet/IP, or EtherCAT communication to the next drive. Position feedback provides **128 signal periods** per mechanical revolution, giving the control loop detailed rotor-position information. Optical sensing and multi-turn absolute memory preserve position data after the system is powered down. The feedback connection uses the **Hiperface** protocol to exchange absolute position and diagnostic data with the integrated controller. The unit has design version 1, winding code 42, a basic performance level, and Series 2 construction.

Functional safety is provided by an integrated **Safe Torque Off (STO)** circuit, which removes gate-drive energy when the safety function is activated. Mechanical torque is transferred to the load through a **shaft with a keyway**,

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allowing positive engagement with a compatible coupling or driven component. An integral shaft seal helps prevent lubricant from escaping while limiting the entry of dust around the shaft interface. The unit does not include a holding brake, so an external restraint is required when a vertical load must remain stationary without motor torque. Frame code **041** and motor length C provide a compact mechanical envelope for decentralized machine axes. The cooling fins are integrated into the housing to dissipate heat generated by the motor and inverter during operation.

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:**	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 Torque Off (STO)
Series:	2	**Shaft Seal:**	Yes	**Shaft Type:**	Shaft with keyway
Supply Voltage:	DC 750 V	**Winding Code:**	42	**Last Verified:**	11/08/2026 5:30 AM

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