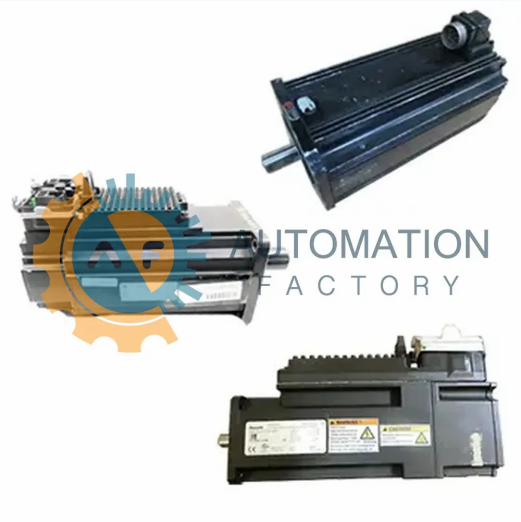
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-041C-42N-S1-HG0-ET-SD-D7-TO-FW



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Bosch Rexroth Indramat supplies the **KSM02.1B-041C-42N-S1-HG0-ET-SD-D7-TO-FW** as a motor-integrated servo drive within the KSM Motor Integrated Servo Drives series. The unit combines a permanent-magnet motor, position feedback, power electronics, and a fieldbus interface in one housing, allowing decentralized installation on machine frames. By eliminating a separate control-cabinet inverter and locating control intelligence near the load, it simplifies wiring while providing closed-loop speed and torque regulation for automated handling, packaging, and assembly stations.

Power is supplied through a **hybrid connector** that carries the DC bus, control supply, and network signals in a single plug. The electronics accept up to **DC 750 V**, matching common multi-axis supply rails. Heat produced by the inverter is removed through **natural convection**, so no fans are required, but the installation must allow unobstructed vertical airflow. A built-in output coupling supports **Multi-Ethernet** communication and permits operation with EtherNet/IP, PROFINET, or EtherCAT through the appropriate configuration settings. The axis incorporates **Safe Motion with SBC**, providing safe torque off and safe brake control functions without external relays. The unit has Series 2 hardware, design version 1 electronics, winding code 42, motor length C, and a Basic performance level. It does not include a holding brake, so stationary loads must be secured by drive torque or external mechanics. A shaft seal protects the interior from dust and splashing liquids.

Position feedback is handled by a Hiperface interface with an **optical scanning element** that resolves the rotor angle into **128 signal periods** per mechanical revolution. The feedback assembly is a **single-turn device**, so

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absolute position is retained within one revolution and can be read immediately after the control system starts. A frame size of **041** establishes the mounting pitch and permissible radial load, supporting compact machinery that requires precise orientation from an integrated drive. The motor uses a smooth shaft, allowing it to connect to compatible clamping couplings without a keyway. Its integrated arrangement reduces the amount of motor and feedback cabling routed between the control cabinet and the machine axis.

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:**	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:**	Plain shaft
Supply Voltage:	DC 750 V	**Winding Code:**	42	**Last Verified:**	11/10/2026 3:59 AM

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