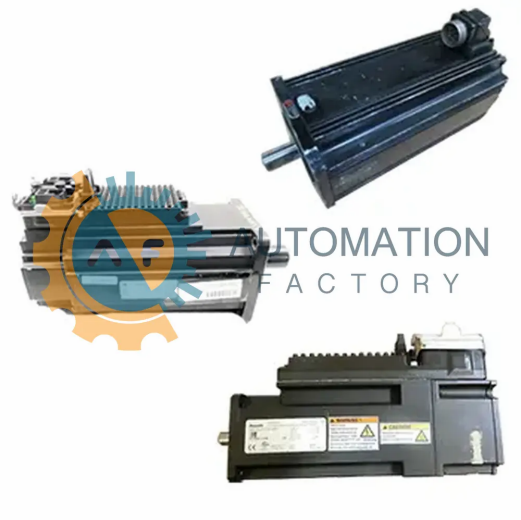
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-35N-S1-HG2-ET-L3-D7-NN-FW



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The **KSM02.1B-061C-35N-S1-HG2-ET-L3-D7-NN-FW** motor-integrated servo drive is produced by Bosch Rexroth Indramat in the KSM Motor Integrated Servo Drives series. Mounted directly on the machine frame, it eliminates the need for cabinet-mounted drives and delivers closed-loop motion control for pick-and-place axes, conveyors, and tooling stations. Power electronics, feedback, and networking are built into the motor housing, enabling decentralized automation with shorter installation times.

The electrical and mechanical connections are combined in a **hybrid connector** that carries power, feedback, and real-time data through a single molded plug. Heat generated by the drive components is removed through **natural convection**, so no fans or liquid circuits are necessary. Rotor position is monitored through a **Hiperface** optical encoder that delivers **128 signal periods** per revolution in a single-turn format, providing suitable resolution for the 061 frame. Network traffic to the machine controller flows over **Multi-Ethernet**, enabling integration into EtherNet/IP, PROFINET, or EtherCAT networks. The actuator uses winding code 35 and motor length C. It has the standard design option, design version 1, and Series 2 construction. A plain shaft with an integral shaft seal transmits torque, while the basic performance level supports moderate-duty positioning applications.

Safety and power functions are handled onboard. The holding brake is **electrically released**, allowing spring-applied clamping of the shaft whenever the machine is disabled. The brake coils are energized by **DC 24 V** supplied through the connector, while the inverter stage draws intermediate-circuit energy from a **DC 750 V** supply bus. Functional safety is provided through the integrated **Safe Torque Off (STO)** channel, which removes torque-

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producing energy from the motor without requiring external relays. The common DC link can supply multiple decentralized axes, while the dedicated STO input allows this drive to enter a safe, torque-free state when the safety circuit is activated.

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:	061	**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:**	35
Last Verified:	11/09/2026 10:22 AM				

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