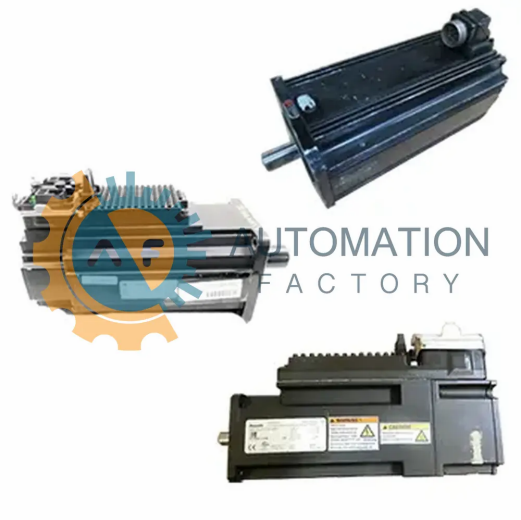
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-61N-S1-HP2-ET-NN-D7-NN-FW



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The **KSM02.1B-061C-61N-S1-HP2-ET-NN-D7-NN-FW** is a motor-integrated servo drive produced by Bosch Rexroth Indramat within the KSM Motor Integrated Servo Drives series. It combines a permanent-magnet servo motor, power stage, and control electronics to support decentralized motion tasks such as indexing conveyors and modular pick-and-place axes. Integrating the drive at the motor reduces cabinet heat, shortens feedback cable runs, and reduces the amount of wiring between the control cabinet and machine. Its Basic performance level supports general-purpose positioning applications on automated production lines.

A regulated DC link accepts a supply of **DC 750 V**, and an internal power section converts that voltage into a controlled three-phase output. Network traffic is handled through the **Multi-Ethernet** master interface, allowing connections to PROFINET, EtherNet/IP, or EtherCAT networks without additional communication hardware. Position data is returned through a **Hiperface** encoder channel. The optical single-turn sensor provides **128 signal periods** per revolution for accurate commutation but does not provide multiturn position tracking. Winding code 61 is paired with the motor configuration to deliver the required torque while remaining within its thermal limits. An electrically released brake engages when control power is removed, and its coil operates from **DC 24 V** supplied by the machine. The unit uses the Standard design option, design version 1, and internal series 2.

Heat is removed by **natural convection**, so the unit does not require a cooling fan when it is properly mounted to the machine frame. The motor has a frame size of **061** and a motor length of C, providing a compact profile for axes installed with limited spacing. Power, signal, and brake leads are routed through a **hybrid connector** that

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combines high-current pins with twisted-pair communication contacts. Output torque is transmitted through a**shaft with a keyway**, providing positive engagement with a compatible coupling or driven component. A shaft seal protects the front bearing from coolant splash and other contaminants near the mechanical output.

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:	Without safety technology	**Series:**	2	**Shaft Seal:**	Yes
Shaft Type:	Shaft with keyway	**Supply Voltage:**	DC 750 V	**Winding Code:**	61
Last Verified:	11/08/2026 6:27 PM				

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