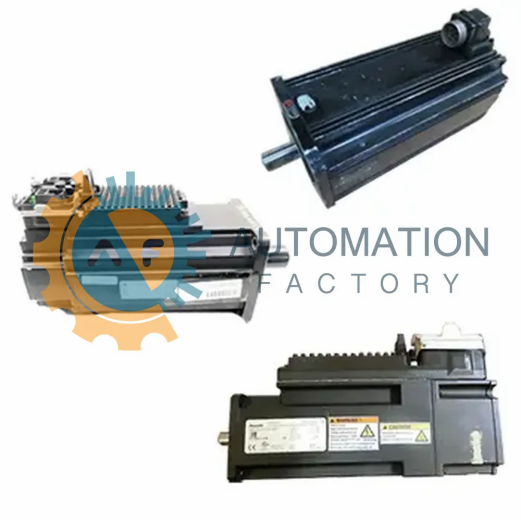
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-61N-M1-HG2-ET-SD-D7-ES-FW



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The **KSM02.1B-061C-61N-M1-HG2-ET-SD-D7-ES-FW** is a motor-integrated servo drive produced by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. It belongs to Series 2, uses motor size 061 and a C-length lamination stack, and has the Basic performance level for standard positioning duties in automated machinery. By combining inverter electronics with the motor in one housing, the unit shortens power and feedback cable runs while supporting decentralized motion along a shared DC bus. This arrangement allows the power conversion stage to remain close to the driven axis, reducing the amount of cabinet-to-motor wiring required across industrial cells.

Power reaches the device through a supply rail rated at **DC 750 V**, enabling the integrated inverter to generate controlled motor current without a separate local rectifier. Heat leaves the housing through **natural convection**, so the unit does not require a fan or liquid-cooling circuit. A single **hybrid connector** carries DC power, control voltage, Ethernet signals, and safety wiring, reducing the number of separate connections routed to the housing. Rotor position data are transmitted through the **Hiperface interface**, which provides absolute feedback and electronic nameplate data over one link. The electrically released brake uses a dedicated **DC 24 V supply**; it releases when energized and secures the shaft when brake power is removed.

The optical encoder scans **128 signal periods** per revolution and retains multi-turn position information, allowing absolute rotor position to remain available after a shutdown. Motion monitoring uses **Safe Motion with SBC** for integrated safety functions involving movement and brake control. Real-time command traffic travels through

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Multi-Ethernet communication, allowing connection to the selected external master over supported Ethernet-based protocols. The motor uses **winding code 61**, which corresponds to the electrical characteristics expected by compatible drive controls. The unit is design version 1 and has a plain output shaft fitted with a shaft seal that limits coolant and dust ingress.

Specifications

Connection Type:	Hybrid Connector	**Cooling Type:**	Natural convection	**Design Option:**	External master communication Multi-Ethernet
Design Version:	1	**Encoder Interface:**	Hiperface	**Encoder Resolution:**	128 signal periods
Encoder Technology:	Optical	**Encoder Turn Type:**	Multi-turn absolute	**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 Motion (with SBC)	**Series:**	2	**Shaft Seal:**	Yes
Shaft Type:	Plain shaft	**Supply Voltage:**	DC 750 V	**Winding Code:**	61
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