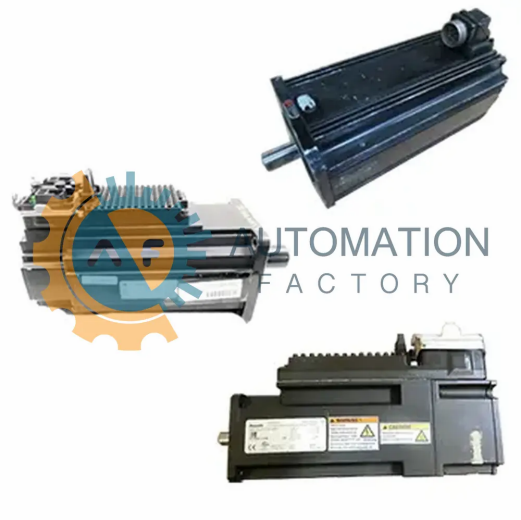
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-61N-S3-HG2-ET-NN-D7-NN-FW



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The **KSM02.1B-061C-61N-S3-HG2-ET-NN-D7-NN-FW** is manufactured by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. By combining power electronics, feedback, and motor components in one housing, the unit mounts directly on a machine axis, reducing cabinet wiring and simplifying decentralized motion control in automated production lines. It accepts a bus supply of **DC 750 V**, which feeds the integrated inverter stage that modulates stator current according to motion commands.

Power, signal, and brake conductors are consolidated in a **hybrid connector**, limiting enclosure penetrations to a single multicore cable. Heat generated by the drive is dissipated through **natural convection**, so no fans or liquid circuits are required around the actuator. Networked control data travel over the **Multi-Ethernet** interface, allowing parameter access through several real-time Ethernet protocols without hardware changes. An electrically released brake clamps the rotor when inactive, and its coil is energized at **DC 24 V** to release the load during operation. The unit has the Standard design option and design version 1, and it is a Basic performance model in Series 2.

Position feedback is generated by a **Hiperface** encoder that uses **16 signal periods** per mechanical revolution. The underlying sensor is **capacitive**, providing immunity to magnetic contamination. The single-turn format delivers absolute position for one revolution, which is sufficient for many rotary axes. Drive torque is transmitted through a **plain shaft**, and a shaft seal protects the internal bearings from lubricant washout and particulates. Motor size 061 with length code C provides torque capacity for mid-frame packaging machines, while winding code 61 matches the stator impedance to the integrated power stage. Safety technology is not included, so external safety measures are

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required when the application needs functional safety.

Specifications

Connection Type:	Hybrid Connector	**Cooling Type:**	Natural convection	**Design Option:**	Standard
Design Version:	1	**Encoder Interface:**	Hiperface	**Encoder Resolution:**	16 signal periods
Encoder Technology:	Capacitive	**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:	Plain shaft	**Supply Voltage:**	DC 750 V	**Winding Code:**	61
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