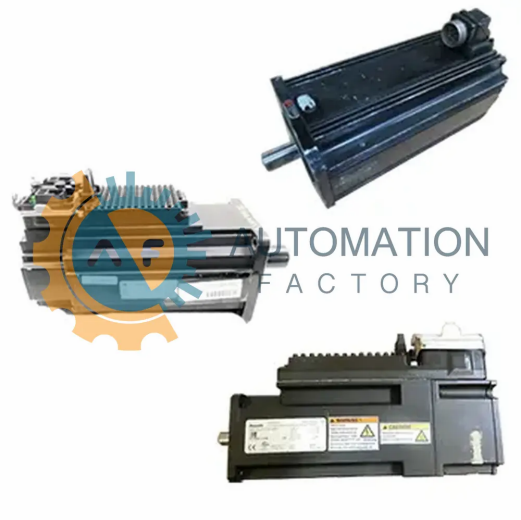
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-61N-M3-HG2-ET-L3-D7-NN-FW



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The **KSM02.1B-061C-61N-M3-HG2-ET-L3-D7-NN-FW** is a motor-integrated servo drive manufactured by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. By housing a servomotor, power stage, and communication interface in one enclosure, it provides decentralized motion control while reducing cabinet space and wiring in automated machinery. The device mounts directly to the machine frame and provides closed-loop torque and position regulation for axes that operate without a separate inverter.

Power is supplied over a bus at **DC 750 V**, allowing the axis to draw energy from a shared DC link. A single **hybrid connector** carries power together with encoder and I/O signals, so only one plug is required for these connections. Heat leaves the housing through **natural convection**, and the fanless design reduces maintenance requirements in dusty areas. Functional safety is provided by **Safe Torque Off (STO)**, which disables the output stage without requiring external contactors. Position data is transmitted through the **Hiperface interface**, and the multi-turn absolute encoder provides a resolution of 16 signal periods. The motor has size 061, length C, and winding code 61. Its basic performance level is paired with Series 2 electronics. A plain shaft with a seal is included in the standard Version 1 design.

Axis holding is managed by an **electrically released brake** that engages when the drive removes its **DC 24 V control signal**, preventing vertical loads from drifting. Communication with the machine controller takes place over **Multi-Ethernet**, supporting automatic address selection for EtherNet/IP, PROFINET, or EtherCAT networks. The encoder uses **capacitive scanning** to obtain position feedback while tolerating shock, oil, and magnetic fields. This

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sensing method supports stable feedback in industrial machinery where contaminants or electromagnetic interference may affect other encoder technologies.

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:**	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 Torque Off (STO)	**Series:**	2	**Shaft Seal:**	Yes
Shaft Type:	Plain shaft	**Supply Voltage:**	DC 750 V	**Winding Code:**	61
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