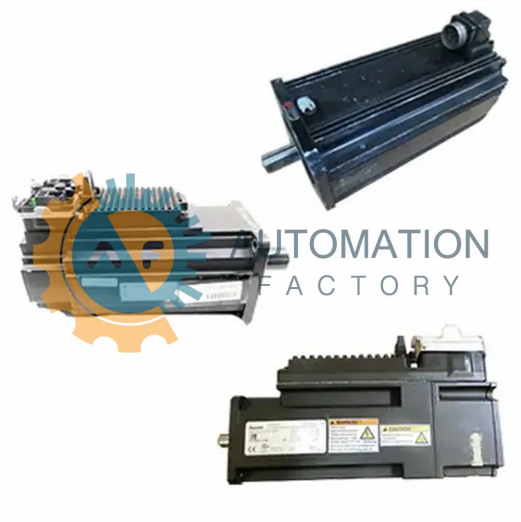
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-61N-M1-HG2-ET-L3-D7-TO-FW



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The **KSM02.1B-061C-61N-M1-HG2-ET-L3-D7-TO-FW** is a motor-integrated servo drive from Bosch Rexroth Indramat's KSM Motor Integrated Servo Drives series. It merges a compact synchronous motor, power electronics, and feedback package into one enclosure so it can be mounted directly on machinery without a control cabinet. This arrangement shortens cable runs and provides decentralized motion control for packaging lines, pick-and-place modules, and light assembly stations where space and wiring complexity must be minimized.

The drive operates from a bus link rated at **DC 750 V**, allowing it to share a high-voltage DC supply with other IndraDrive components. Heat is dissipated through **natural convection**, avoiding fans and keeping maintenance low in dusty environments. Command and diagnostic data are exchanged over the **Multi-Ethernet** master interface, which supports EtherNet/IP, PROFINET, EtherCAT, or Sercos III according to the selected configuration. Position feedback is handled by a **Hiperface** optical encoder that delivers **128 signal periods** per mechanical turn, giving the control loop the resolution required for precise velocity and interpolation tasks. A hybrid connector combines power, fieldbus, and I/O connections in a single plug to streamline installation.

Functional safety is built in through **Safe Torque Off (STO)**, which disables the power stage without disrupting network communication during emergency stops. The electrically released holding brake engages whenever its coil is disconnected and is powered by **DC 24 V** from the machine's control supply. The motor has a frame size of **061**, and **winding code 61** matches its torque curve to moderate-inertia loads. The plain shaft includes a seal that limits fluid ingress while allowing direct connection to compatible couplings. Its integrated brake can retain the connected

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load after the drive removes motor torque, provided that the load remains within the brake's permitted holding capacity.

Specifications

Connection Type:	Hybrid Connector	**Cooling Type:**	Natural convection	**Design Option:**	Multi-Ethernet output coupling
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 Torque Off (STO)	**Series:**	2	**Shaft Seal:**	Yes
Shaft Type:	Plain shaft	**Supply Voltage:**	DC 750 V	**Winding Code:**	61
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