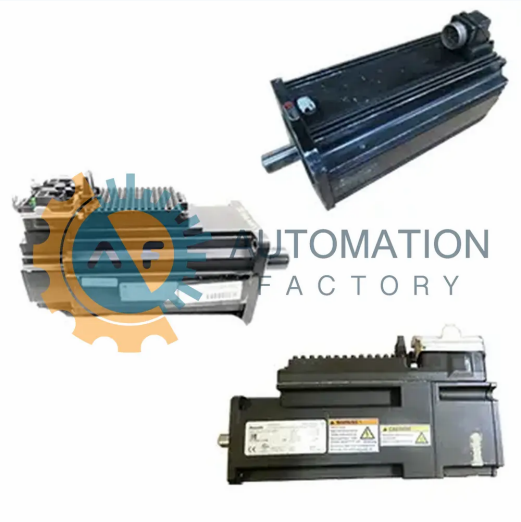
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-61N-S1-HG0-ET-L3-D7-TO-FW



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The **KSM02.1B-061C-61N-S1-HG0-ET-L3-D7-TO-FW** is manufactured by Bosch Rexroth Indramat as part of the KSM Motor Integrated Servo Drives series. It combines a synchronous motor, power electronics, and a fieldbus interface in one housing to simplify distributed machine layouts and eliminate long motor cables. Designed as a motor-integrated servo drive, the device draws DC-link energy from a common bus and positions loads with closed-loop accuracy in multi-axis automation lines. Its integrated arrangement reduces the amount of separate drive equipment required in a central control cabinet.

The power stage accepts a supply of **DC 750 V**, allowing it to share energy with other axis modules on the same rail. Power, signal, and safety wiring reach the unit through a single **hybrid connector**, minimizing the number of separate cable connections. Heat produced during operation is removed by **natural convection**, so the mounting orientation must leave free space around the cooling fins and no external fan is required. Rotor position is sent to the control loop through a **Hiperface interface**. The optical encoder provides **128 signal periods per revolution**, supporting accurate feedback for point-to-point moves and electronic gearing. This feedback arrangement allows the controller to monitor rotor movement while regulating speed, torque, and position.

The drive provides functional safety through **Safe Torque Off (STO)**, which removes motor torque without opening the main DC link when a protective circuit is triggered. Network communication and output coupling are handled through the **Multi-Ethernet port**, supporting EtherNet/IP, PROFINET, and EtherCAT topologies. Mechanical output is delivered by a **plain shaft** that mates with clamping couplings or pulleys without requiring a key. The encoder is a

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single-turn device, providing absolute position information within one mechanical revolution. The motor has size 061, length code C, and winding code 61. A shaft seal helps prevent coolant from entering the motor housing, while the Basic performance level identifies the available control capabilities. The product is design version 1 and is supplied without a holding brake, so vertical axes require an external clamping mechanism when power is removed.

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:**	Single-turn	**Holding Brake:**	Without holding brake
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	**Last Verified:**	11/07/2026 7:45 AM

Contact Us

1620 Old Apex Road, Cary, NC 27513, USA

Toll Free: 1-888-551-3082

International: 1-919-443-0207

Fax: 1-919-867-6204

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