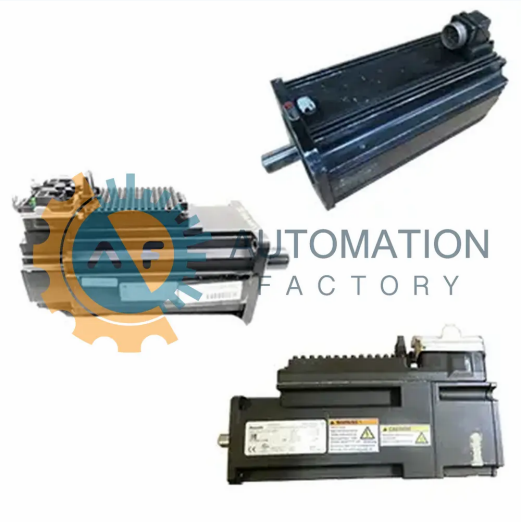
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-61N-M1-HP0-ET-L3-D7-TO-FW



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The **KSM02.1B-061C-61N-M1-HP0-ET-L3-D7-TO-FW** is a motor-integrated servo drive manufactured by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. By combining a permanent-magnet servo motor and a drive controller in one housing, it supplies decentralized axis control to conveyors, pick-and-place units, and other distributed automation stations. The product belongs to the second series generation, has the basic performance level, and is intended for machines that need compact motion modules without a separate cabinet-mounted inverter.

The drive draws power from a supply bus rated at **DC 750 V**. Heat generated by the embedded power electronics is removed through **natural convection**, eliminating fans and reducing maintenance requirements. An integrated safety layer provides **Safe Torque Off (STO)**, which rapidly cuts motor energy when the safety circuit opens. Power, control, and feedback lines are combined in a single **hybrid connector**, which streamlines installation and minimizes wiring errors on the production floor. Rotor position is monitored with a **Hiperface** optical encoder that delivers **128 signal periods** per revolution, allowing fine commutation and high-resolution velocity feedback. Because the motor is supplied without a holding brake, an external clamping device or drive-generated torque must secure vertical loads when power is removed.

The unit communicates with higher-level controllers through the **Multi-Ethernet** interface included in its design, allowing EtherNet/IP, PROFINET, or EtherCAT to be selected through software. Torque is transmitted through a **shaft with a keyway**, and a shaft seal is fitted to limit lubricant leakage and the entry of airborne contaminants. The

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frame designation of **061** and motor length C establish the motor geometry, while winding code 61 matches the internal coils to the rated bus voltage for balanced speed and torque output. The multi-turn absolute encoder retains position data through power cycles, allowing the controller to recover the axis position after power is restored.

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:**	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:**	Shaft with keyway
Supply Voltage:	DC 750 V	**Winding Code:**	61	**Last Verified:**	11/09/2026 8:02 AM

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