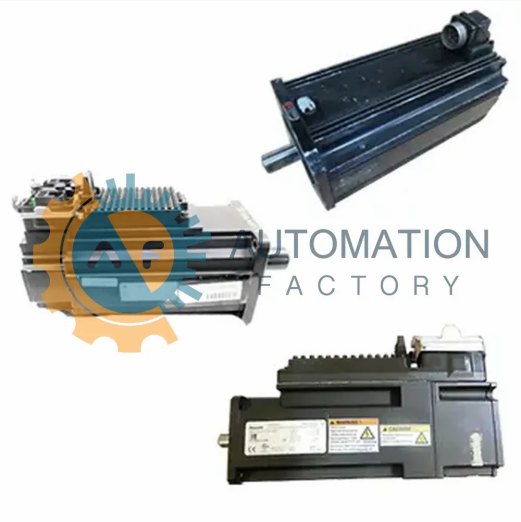
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-35N-M1-HG0-ET-L3-D7-TO-FW



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The **KSM02.1B-061C-35N-M1-HG0-ET-L3-D7-TO-FW** is a motor-integrated servo drive from Bosch Rexroth Indramat that belongs to the KSM Motor Integrated Servo Drives series. By combining a servo motor and its power electronics in a single housing, it supports decentralized axis control on machines where panel space is limited. This basic-performance device is intended for pick-and-place units, packaging machinery, and material transport stations that require precise torque generation without the wiring complexity of cabinet-mounted drives.

Power for the drive section is supplied from a DC bus rated at **DC 750 V**, so it can be connected directly to a common high-voltage link shared by multiple axes. Command and diagnostic data reach the unit through a **Multi-Ethernet** interface that can switch among EtherNet/IP, PROFINET, and EtherCAT without hardware changes. Rotor position is recorded by an optical feedback package that delivers **128 signal periods** per revolution through the **Hiperface** protocol. The **optical sensor system** provides immunity to magnetic interference. Position tracking is multi-turn absolute, so the shaft angle is retained after power loss. Cooling relies on natural convection, eliminating forced-air components.

Functional safety is handled by the integrated **Safe Torque Off (STO)** circuit, which cuts inverter gating energy when an emergency input is asserted. All power, signal, and auxiliary conductors pass through a single **hybrid connector**, shortening installation time and reducing wiring errors. A **shaft seal** at the front end restricts dust or fluid ingress during washdown cleaning. The motor uses size code **061**, winding code 35, and frame length C. Its plain shaft supports backlash-free clamp couplings. The unit is design version 1 and has an output coupling suitable

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for decentralized wiring.

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:**	Plain shaft
Supply Voltage:	DC 750 V	**Winding Code:**	35	**Last Verified:**	11/10/2026 4:02 AM

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