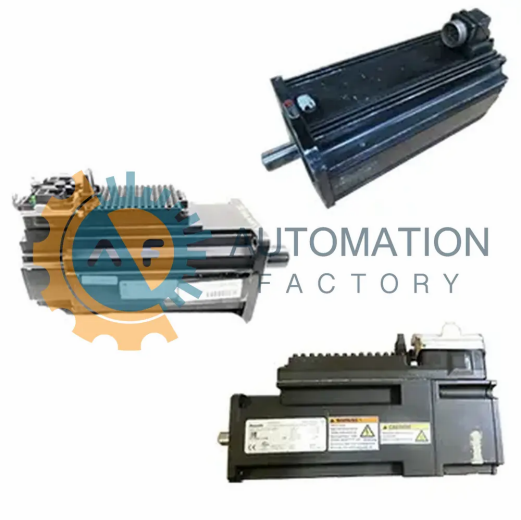
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-35N-M3-HP0-ET-L3-D7-NN-FW



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The **KSM02.1B-061C-35N-M3-HP0-ET-L3-D7-NN-FW** is a motor-integrated servo drive from the Bosch Rexroth Indramat KSM Motor Integrated Servo Drives Series 2. By combining drive electronics with a synchronous motor in one housing, the unit provides decentralized positioning and speed control for conveyors, tooling axes, and handling modules. Its compact format reduces the amount of wiring routed to a central cabinet. The integrated control stage also allows direct communication with higher-level motion controllers in industrial automation cells.

Power, control, and feedback signals are routed through a single **hybrid connector**, simplifying installation on distributed machine frames. The inverter section accepts a **750 V DC** supply that matches the common intermediate bus voltage used in modular Rexroth drive systems. Heat produced by the power stage is released through **natural convection**, so the drive does not require an external fan when installed with adequate airflow. Rotor position data are transmitted through a **Hiperface interface**, allowing the internal controller to obtain absolute position information at startup without a homing move. Motion commands and diagnostic data are exchanged through **Multi-Ethernet communication**, which supports configuration for EtherNet/IP, PROFINET, or EtherCAT without changes to the communication hardware. The motor has a size of 061, a C length code, and a winding code of 35. It is produced as design version 1 with a basic performance level. The drive has no holding brake, while a shaft seal helps limit the entry of dust and fluids at the output end.

Functional safety includes **Safe Torque Off (STO)**, which allows an emergency-stop circuit to inhibit torque-producing power without disconnecting the control wiring. The encoder provides **multi-turn absolute feedback**,

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retaining position information across power cycles. Its encoder uses **capacitive sensing** and produces 16 signal periods per revolution for rotor position measurement. Output torque is transmitted through a **shaft with a keyway**, which supports keyed couplings and pulleys used in material-handling equipment. The standard design option follows the Series 2 KSM mechanical envelope for decentralized drive installations.

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:**	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:**	35	**Last Verified:**	11/09/2026 10:39 AM

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