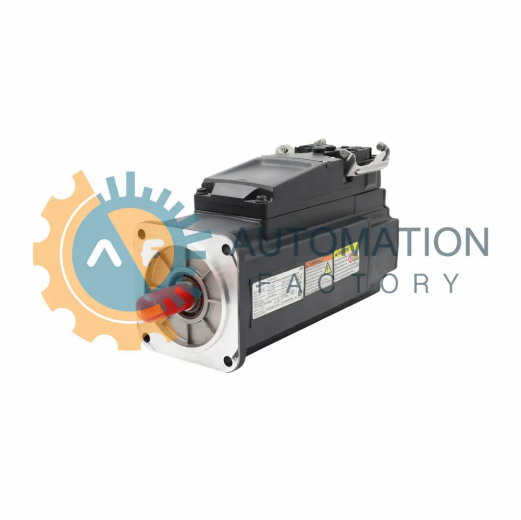
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-35N-M3-HG2-ET-L3-D7-NN-FW



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The **KSM02.1B-061C-35N-M3-HG2-ET-L3-D7-NN-FW** is a motor-integrated servo drive developed by Bosch Rexroth Indramat within the KSM Motor Integrated Servo Drives series. By combining controller electronics with a synchronous motor in a 061 frame size, the unit can be mounted close to the axis it controls, eliminating the need for a separate cabinet-mounted drive. In distributed automation lines, it provides torque, speed, and position control for packaging, material-handling, and assembly equipment while communicating over Ethernet-based industrial networks.

Power and control wiring are routed through a **hybrid connector**, which carries DC-bus power, signals, and brake conductors in a single plug. The unit is cooled by **natural convection**, allowing ambient airflow to dissipate operating heat without fans or liquid-cooling equipment. The drive section operates from a **750 V DC** supply rail. The electrically released holding brake uses **24 V DC** power to release the shaft during operation and engages when power is removed, helping secure vertical loads. Position feedback is processed through a **Hiperface interface**, which provides absolute position data at startup. The motor has winding code 35, length C, a standard design option, and design version 1 for use in medium-power motion axes.

The encoder uses **capacitive sensing** and produces **16 signal periods** per mechanical revolution. Its multi-turn absolute capability retains position information across multiple shaft revolutions, allowing the control system to determine the axis position without performing a homing cycle after startup. Functional safety is provided by **Safe Torque Off (STO)**, which disables gate signals to the power stage without disconnecting the DC link. Command

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and diagnostic traffic use **Multi-Ethernet communication**, supporting integration with Sercos III, EtherNet/IP, PROFINET, or EtherCAT networks. The motor has a basic performance level and belongs to Series 2. Its plain shaft includes a shaft seal, helping prevent contaminants from reaching the bearing area when the motor is connected to an external gearbox or coupling.

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:**	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:**	35
Last Verified:	11/06/2026 10:01 AM				

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