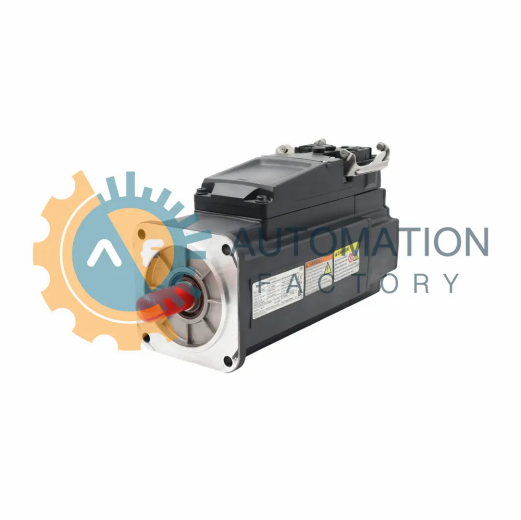
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

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



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The **KSM02.1B-061C-35N-M3-HG2-ET-NN-D7-NN-FW** is a motor-integrated servo drive produced by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. It combines power electronics, control logic, and a synchronous servo motor in one housing. This configuration delivers decentralized axis control for packaging lines, conveyors, and assembly stations while reducing cabinet wiring and simplifying installation.

This drive accepts a bus supply of **DC 750 V**, allowing it to draw high-power direct current from a common DC link. Power, feedback, and Ethernet signals are routed through a single **hybrid connector**, which minimizes the plug count and preserves IP sealing. Thermal management relies on **natural convection**; the aluminum body releases heat into the surrounding air without fans, reducing maintenance requirements. Position data is transferred over a **Hiperface** interface, and the embedded capacitive encoder generates **16 signal periods** per mechanical revolution for precise commutation. For machine networking, the controller has a **Multi-Ethernet** port that can be configured through parameters for EtherNet/IP, PROFINET, or EtherCAT, permitting integration with different PLC platforms.

An **electrically released holding brake** is built into the rear flange and engages automatically when the 24-volt supply is removed. When control power is present, the brake coil is energized by **DC 24 V** to release the shaft. The output uses a **plain shaft with a shaft seal**, supporting operation with gearboxes or belt drives while helping prevent lubricant leakage and contaminant entry. The motor has size 061 stator laminations, length C, and winding code 35, providing the electromagnetic arrangement for its torque class and basic performance level. Its capacitive,

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multi-turn absolute encoder retains the absolute position across power cycles without a battery. The unit uses the standard design option, design version 1, and series index 2.

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:	Without safety technology	**Series:**	2	**Shaft Seal:**	Yes
Shaft Type:	Plain shaft	**Supply Voltage:**	DC 750 V	**Winding Code:**	35
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