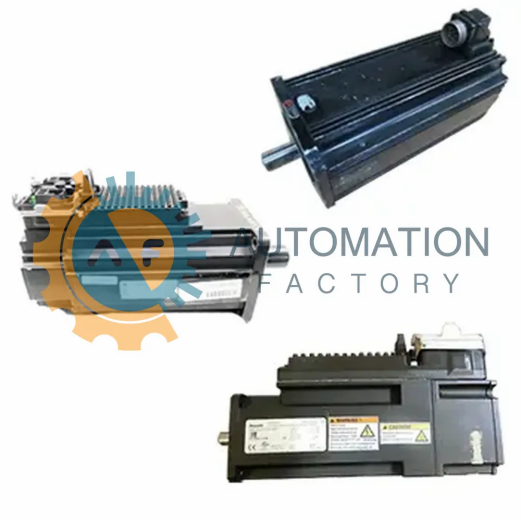
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-35N-M1-HP2-ET-L3-D7-NN-FW



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The **KSM02.1B-061C-35N-M1-HP2-ET-L3-D7-NN-FW** is a motor-integrated servo drive produced by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. By combining drive electronics with a synchronous motor, the unit can be installed directly on the machine frame without a cabinet-mounted amplifier. In decentralized automation systems, it provides axis control at the point of motion while reducing wiring length and the amount of heat generated inside the cabinet. Its Basic performance level supports motion applications in packaging, material handling, and assembly cells.

The unit operates from a **750 V DC link**, allowing direct connection to compatible IndraDrive supply modules without an intermediate converter. Heat is removed through **natural convection**, so no fans or liquid-cooling circuits are required. A single **hybrid connector** carries power, safety, feedback, and Ethernet lines through one connection point. The integrated motor uses a **motor size 061** frame with length code C. Its magnetic circuit uses **winding code 35**, which corresponds to the motor's electrical characteristics and current requirements. The unit has the standard design option, design version 1, and Series 2 construction. A keyed shaft provides positive torque transfer to the connected mechanism, while a shaft seal helps prevent contaminants from reaching the internal components.

Control traffic is handled through **Multi-Ethernet communication**, allowing the axis to operate on SERCOS III, EtherNet/IP, PROFINET, or EtherCAT networks when appropriately configured. When a safety stop is requested, the integrated **Safe Torque Off (STO)** circuit removes gate power from the inverter stage and prevents torque-

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producing current. Mechanical holding is provided by an **electrically released brake** that engages when its supply is removed. The brake coil operates from **24 V DC** control power. Position feedback comes from an optical Hiperface encoder that provides 128 signal periods per revolution and multi-turn absolute position tracking. The encoder retains position information across power cycles, which allows the controller to recover the axis position without a new homing sequence. Its optical sensing method also limits position drift as the operating temperature changes.

Specifications

Connection Type:	Hybrid Connector	**Cooling Type:**	Natural convection	**Design Option:**	Standard
Design Version:	1	**Encoder Interface:**	Hiperface	**Encoder Resolution:**	128 signal periods
Encoder Technology:	Optical	**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:	Shaft with keyway	**Supply Voltage:**	DC 750 V	**Winding Code:**	35
Last Verified:	11/10/2026 12:30 AM				

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