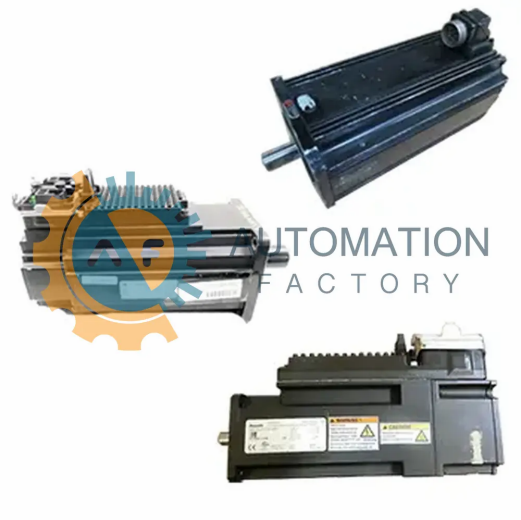
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-35N-S3-HP2-ET-NN-D7-NN-FW



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The **KSM02.1B-061C-35N-S3-HP2-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 drive electronics with a 061-frame permanent-magnet motor, providing decentralized motion control from a unit that can mount directly on a moving axis. This configuration is intended for industrial automation applications where cabinet space is limited and straightforward installation is important. Integrating the motor and drive also reduces the number of separate components that must be installed inside the control cabinet.

The unit uses a **hybrid connector** that carries power, feedback, and fieldbus signals through one plug, reducing wiring complexity. Heat is removed through **natural convection**, so no forced-air components are needed inside the machine enclosure. Rotor position is reported over a **Hiperface interface** connected to a single-turn encoder with a resolution of sixteen signal periods, supporting precise speed control. Axis holding is provided by an **electrically released brake** that engages whenever the control voltage is removed. The brake coil is energized by a **DC 24 V supply** delivered through the auxiliary pins of the hybrid cable. Design version 1, winding code 35, and the C-length stator establish the electrical characteristics used to match the motor with a suitable power stage.

Control communication is handled through a **Multi-Ethernet interface** that supports Sercos III, EtherNet/IP, PROFINET, and EtherCAT without hardware changes. This interface allows the required communication protocol to be selected during system setup. Output torque is transmitted through a **shaft with a keyway**, and a shaft seal helps prevent lubricant from entering the motor cavity. The power stage accepts a shared bus voltage of up to **DC**

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750 V, allowing multiple drives to return regenerated energy to the common supply link. The encoder uses **capacitive technology**, which resists magnetic interference and maintains accurate feedback under high vibration. The unit does not include integrated safety functions, so applications requiring functional safety must use appropriate external controls.

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:**	Single-turn	**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:	Shaft with keyway	**Supply Voltage:**	DC 750 V	**Winding Code:**	35
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