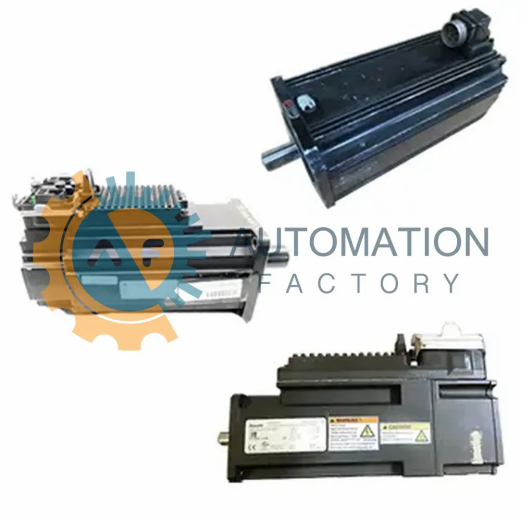
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-35N-S1-HG0-ET-L3-D7-NN-FW



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The **KSM02.1B-061C-35N-S1-HG0-ET-L3-D7-NN-FW** is a motor-integrated servo drive manufactured by Bosch Rexroth Indramat within the KSM Motor Integrated Servo Drives series. It combines a servo motor, inverter stage, feedback circuits, and communication hardware in one enclosure, allowing the axis to be mounted directly on the equipment and eliminating the need for long motor cables. The unit is Series 2 with a Basic performance level. It is intended for distributed handling, packaging, and material-processing stations that require accurate torque control and minimal cabinet space in industrial automation.

The drive operates from a bus voltage of **DC 750 V**, allowing it to share a common intermediate circuit with neighboring axes and reduce power wiring. Heat is removed solely by **natural convection**, so no fans or liquid cooling loops are required. Airflow around the enclosure must remain unobstructed to support effective heat dissipation. Cyclic data exchange with PLCs is carried out through a **Multi-Ethernet** interface that supports several real-time Ethernet fieldbuses selected through configuration. Integrated safety is provided by **Safe Torque Off (STO)**, which disables the inverter gate signals when a stop channel is triggered. The electromagnetic section uses winding code 35 and motor size **061** to provide the torque and speed characteristics associated with this frame.

Position feedback is supplied by an optical encoder that communicates over Hiperface and produces **128 signal periods** per revolution. The **single-turn encoder** provides absolute position within one mechanical rotation, reducing the need for a homing movement after startup. Power, signal, and fieldbus conductors enter through a single **hybrid connector**, which simplifies installation and supports daisy-chain wiring between distributed axes.

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The motor has a plain shaft with a factory-installed shaft seal that helps prevent lubricant migration and protects the internal components from contaminants. The drive is supplied with **no holding brake**, so static load retention must be provided externally or through an appropriate servo clamping function when the axis is stopped.

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:**	Single-turn	**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:**	Plain shaft
Supply Voltage:	DC 750 V	**Winding Code:**	35	**Last Verified:**	11/09/2026 11:42 PM

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