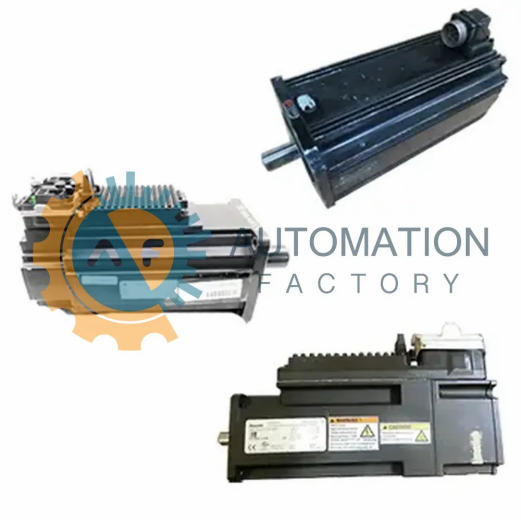
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-35N-S3-HG0-ET-L3-D7-NN-FW



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The **KSM02.1B-061C-35N-S3-HG0-ET-L3-D7-NN-FW** is a motor-integrated servo drive from Bosch Rexroth Indramat and belongs to the KSM Motor Integrated Servo Drives series. It combines servo motor mechanics, drive electronics, and network communication in one housing for decentralized motion control. This arrangement reduces the amount of separate cabinet equipment and shortens cable routes in automated assembly cells and handling systems. The integrated format also allows the drive to regulate torque, speed, and position close to the controlled axis.

Power for the drive stage is supplied from a shared bus at **DC 750 V**, so the unit does not require a local AC rectifier. Heat is released through **natural convection**, so the unit does not require a fan or liquid cooling system. Power, signal, and safety conductors are routed through a single **hybrid connector**, reducing the number of separate connections required on a multi-axis machine. Rotor position is captured through a **Hiperface** interface with an absolute resolution of **16 signal periods**. The capacitive scanning method supplies single-turn feedback without relying on optical components. The motor has size 061, frame length C, and winding code 35, which establish the motor's physical format and electromagnetic configuration.

The integrated controller exchanges cyclic setpoints through **Multi-Ethernet**, allowing selection among several Ethernet-based fieldbuses through software. Functional safety is limited to **Safe Torque Off (STO)**, which disables the power stage without altering the feedback channel. A **plain shaft** transfers torque to a coupling, while a **shaft seal** helps prevent lubricant from entering the stator interior. The drive does not include a holding brake, so an

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external mechanism must secure a vertical load when power is removed. The unit has a standard design and design version 1. It has a Series 2 classification and a Basic performance level.

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:**	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:**	11/10/2026 3:36 AM

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