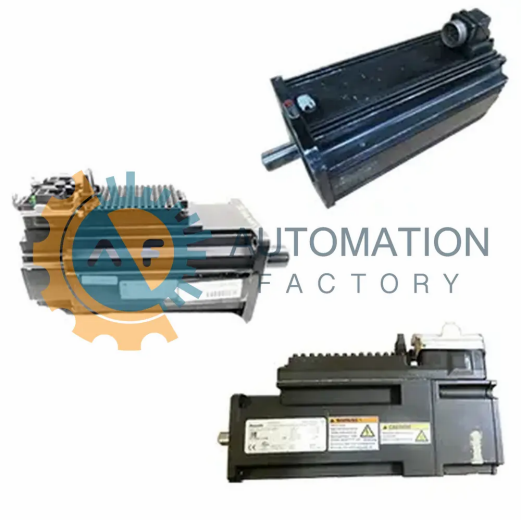
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-35N-M1-HG2-ET-L3-D7-NN-FW



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The **KSM02.1B-061C-35N-M1-HG2-ET-L3-D7-NN-FW** is a motor-integrated servo drive manufactured by Bosch Rexroth Indramat in the KSM Motor Integrated Servo Drives Series 2. It combines a servo motor, power electronics, an encoder, and a fieldbus node in one enclosure. This arrangement supports decentralized axis control in packaging machines, material-handling stations, and other automated systems where cabinet space is limited. Locating the drive electronics at the motor reduces the amount of separate equipment required inside the control cabinet and shortens the associated power and feedback connections.

The drive operates from a **750 V DC bus** and dissipates heat through **natural convection**, eliminating the need for cooling fans. A single **hybrid connector** carries power, brake, and signal lines, simplifying cable routing between system components. Motion commands are exchanged over **Multi-Ethernet**, allowing the unit to connect to EtherCAT, PROFINET, SERCOS III, or EtherNet/IP networks through the supported communication configuration. Position feedback is produced by an **optical Hiperface encoder**, which provides the drive with rotor position data for closed-loop motion control. The unit uses the standard design option, design version 1, and winding code 35 for its torque and speed characteristics. Its overall capability is classified as Basic performance level, making it suitable for applications that use standard motion-control functions.

Rotor position is measured with **128 signal periods per revolution** and retained by a multi-turn absolute counter, allowing position information to remain available across multiple shaft revolutions. An electrically released brake operates at **24 V DC** and secures the connected load when the brake is not energized. Functional safety is provided

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by **Safe Torque Off (STO)**, which prevents torque-producing current from reaching the motor after a valid safety request. The motor has a plain shaft with a shaft seal, helping protect the bearing area from contaminants while providing a straightforward coupling interface. Its motor size is **061**, and its frame length is C for compact installation in space-constrained machinery. Hiperface communication supplies feedback data to the integrated drive electronics, while the sealed shaft and electrically released brake support controlled positioning and load retention.

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:	Plain shaft	**Supply Voltage:**	DC 750 V	**Winding Code:**	35
Last Verified:	11/09/2026 5:44 AM				

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