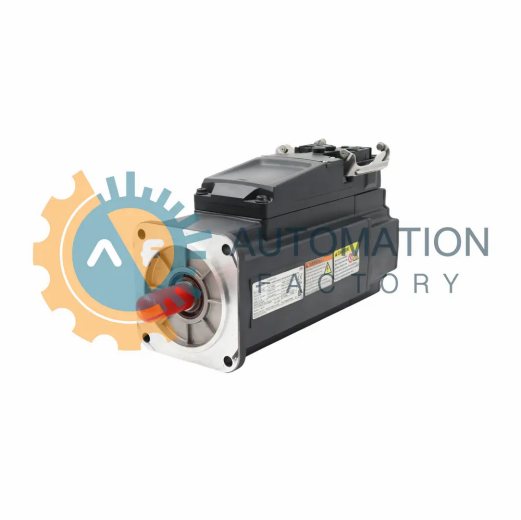
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-35N-M1-HG0-ET-NN-D7-NN-FW



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The **KSM02.1B-061C-35N-M1-HG0-ET-NN-D7-NN-FW** is produced by Bosch Rexroth Indramat within the KSM Motor Integrated Servo Drives series. This compact axis module combines a motor, power electronics, and a fieldbus interface in one enclosure, eliminating the need for a separate panel-mounted inverter. By mounting directly on the machine frame, it reduces wiring and supports distributed motion control in packaging lines, material-handling cells, and other automated equipment. The integrated arrangement also shortens the electrical connections between the inverter and motor, which helps reduce the amount of cabling routed through the machine.

The axis accepts a **DC 750 V** DC link, allowing it to share a common supply with other decentralized drives on the machine. Power, encoder, and brake conductors are consolidated in a single **hybrid connector**, simplifying cable routing through energy chains. Heat is dissipated by **natural convection**, so the housing requires free air circulation but does not require a cooling fan. Rotor position data is transmitted through **Hiperface**, and the optical measuring head delivers **128 signal periods** per motor revolution. This resolution supports smooth velocity control when the controller processes the sine-cosine signals. The unit is design version 1 with motor length C and a Basic performance level.

The feedback module retains position information through its **multi-turn absolute capability**, eliminating the need for reference travel after a shutdown. Network traffic is handled by **Multi-Ethernet**, which supports communication through Sercos III, EtherCAT, PROFINET IO, or EtherNet/IP. The motor uses the **061 frame size**, while its integrated stator has **winding code 35** to match its torque characteristics to the internal inverter. A plain

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shaft is installed, and a shaft seal helps protect the motor against splash ingress. The unit does not include a holding brake, so an external mechanism must retain stationary loads when power is removed. It also does not include integrated safety technology, so applications requiring safe torque off must use external safety devices.

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:**	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:**	Without safety technology
Series:	2	**Shaft Seal:**	Yes	**Shaft Type:**	Plain shaft
Supply Voltage:	DC 750 V	**Winding Code:**	35	**Last Verified:**	11/10/2026 11:59 AM

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