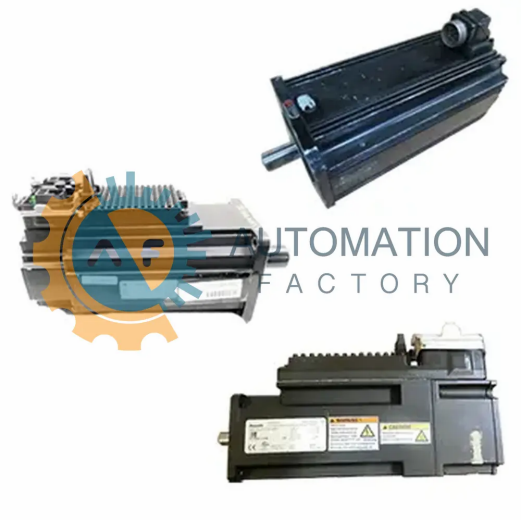
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

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



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The **KSM02.1B-061C-35N-M1-HG0-ET-SD-D7-NN-FW** is a motor-integrated servo drive built by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. By combining a synchronous motor with an onboard drive controller, the unit provides decentralized axis control for packaging machines, material-handling lines, and other automated cells. It belongs to the second generation of KSM devices and serves as a compact motion module that receives DC bus power from a common supply. The integrated controller executes precise torque, speed, and position commands directly at the machine frame, reducing the amount of equipment required in a central control cabinet.

Its power stage operates from a **750 V DC** supply, so a shared converter can run multiple drives without individual rectifiers. Command and diagnostic traffic are routed over **Multi-Ethernet**, allowing the unit to connect to EtherNet/IP, PROFINET, or EtherCAT networks. Rotor position is captured through a **Hiperface** optical encoder that provides **128 signal periods** per mechanical revolution. The multi-turn absolute encoder retains position data across power cycles, supporting startups without a homing sequence. Thermal energy leaves the housing through **natural convection**, eliminating forced-air components and reducing enclosure noise. The unit is delivered without a holding brake, so static load retention must come from external mechanics or drive torque.

Field wiring enters through a single **hybrid connector** that carries DC bus power, logic power, and motor feedback through one plug, reducing cabinet wiring complexity. Functional safety is provided by **Safe Motion with SBC**, enabling safe torque off and safely limited speed functions. The drive uses a size **061** stator with motor length C

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and winding code 35, providing the torque characteristics required for basic-level applications. A **plain shaft with a shaft seal** supports gearhead or pulley attachment while maintaining ingress protection at the output end. The unit uses the standard design option, design version 1, and Basic performance level.

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:**	Safe Motion (with SBC)
Series:	2	**Shaft Seal:**	Yes	**Shaft Type:**	Plain shaft
Supply Voltage:	DC 750 V	**Winding Code:**	35	**Last Verified:**	11/08/2026 10:57 AM

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