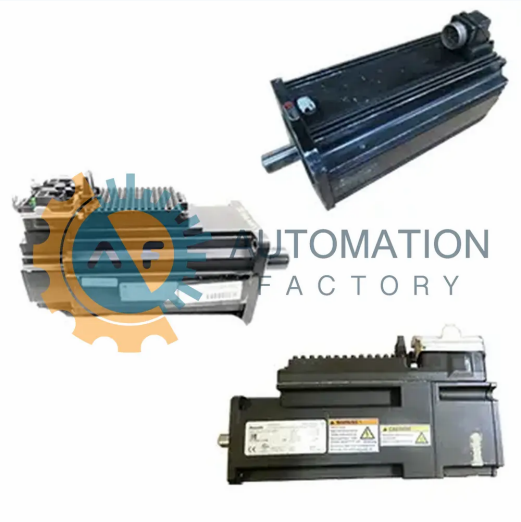
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

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



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The **KSM02.1B-061C-35N-S1-HG0-ET-SD-D7-NN-FW** is a motor-integrated servo drive produced by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. As a self-contained axis, it combines a permanent-magnet motor, power electronics, and control logic in one housing to simplify decentralized automation layouts on packaging lines, gantries, and handling systems. The unit is Series 2 and Design Version 1, and it uses the standard design option. Its basic performance level is suitable for mid-range positioning tasks, while the integrated configuration reduces the amount of equipment required in a central control cabinet.

The drive receives power from a common DC bus at **DC 750 V**, allowing it to share regenerated energy with other axes without additional power supplies. A single **hybrid connector** carries DC power, safety I/O, and feedback lines, reducing cabinet wiring. Heat is removed by **natural convection**, so the mounting area must allow free air circulation rather than rely on fans. Rotor position is measured through a **Hiperface optical encoder** that delivers **128 signal periods** per revolution, supporting accurate commutation and short-cycle movements. The motor has a size of 061 and a length of C, while winding code 35 provides a speed-torque curve suitable for moderate-inertia loads. The assembly is supplied without a holding brake, so stationary loads must be secured by drive torque or an external mechanism when required.

Machine control networks connect over **Multi-Ethernet**, allowing the drive to communicate through Sercos III, EtherNet/IP, or PROFINET. Integrated **Safe Motion with SBC** supports safe torque off, safe-limited functions, and safe brake control without external safety relays. Output torque is transferred through a **plain shaft with a shaft**

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seal, which helps prevent oil and dust from entering around the shaft opening. The encoder supplies absolute position data in a **single-turn format**, making a homing routine unnecessary after a power cycle when the axis remains within one mechanical revolution. The compact motor-integrated arrangement places motion control close to the driven mechanism, reducing long motor-cable runs and supporting decentralized machine layouts.

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 Motion (with SBC)
Series:	2	**Shaft Seal:**	Yes	**Shaft Type:**	Plain shaft
Supply Voltage:	DC 750 V	**Winding Code:**	35	**Last Verified:**	11/09/2026 3:21 PM

Contact Us

1620 Old Apex Road, Cary, NC 27513, USA

Toll Free: 1-888-551-3082

International: 1-919-443-0207

Fax: 1-919-867-6204

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