Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

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



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The **KSM02.1B-061C-35N-S1-HG0-ET-NN-D7-NN-FW** is a motor-integrated servo drive produced by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. It combines a synchronous motor, power electronics, and a fieldbus interface in a single housing. The unit receives energy directly from the cabinet's DC link and uses it to position machine axes in industrial automation systems. This integrated arrangement reduces the amount of external wiring required between the motor, drive electronics, and control network while supporting closed-loop motion at the machine.

The drive connects to the common DC bus through a **hybrid connector** that carries power, control, and feedback lines in a single plug. Its input accepts **DC 750 V**, making it suitable for high-energy multi-axis systems that share a DC link. Heat is removed through **natural convection**, so the housing does not require cooling fans. Command data reach the unit through **Multi-Ethernet**, which supports Ethernet-based communication with the machine controller. Rotor position data are transmitted through the **Hiperface** interface, providing the feedback needed for closed-loop position and speed regulation. The device has Design Version 1 and uses the standard design option. Motor length code C and winding code 35 identify the electromagnetic stack and phase resistance used for this configuration. The motor is supplied without a holding brake, so stationary loads must be retained by drive torque or an external mechanism when necessary. A shaft seal limits the entry of contaminants around the output journal.

Optical encoder scanning generates **128 signal periods** per revolution, and the **single-turn** format provides absolute position within one mechanical revolution. This feedback arrangement suits axes that do not need to retain

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multi-turn position data after power is removed. Frame size **061** provides a compact balance of rotor inertia and continuous torque for automated machinery. The output end uses a **plain shaft**, allowing a clamping coupling or gearhead to transfer torque without a keyway. This shaft arrangement can support precise alignment when the mating coupling is installed correctly. Internal revision level 2 applies to the unit, and its basic performance level supports standard motion-control tasks. Functional safety must be provided by external equipment when the application requires safety-related stopping or motion monitoring.

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:**	Without safety technology
Series:	2	**Shaft Seal:**	Yes	**Shaft Type:**	Plain shaft
Supply Voltage:	DC 750 V	**Winding Code:**	35	**Last Verified:**	11/08/2026 12:53 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

Email: sales@wakeindustrial.com

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