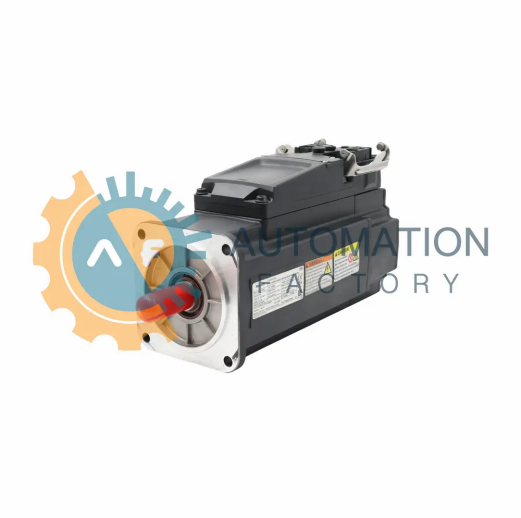
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-35N-S1-HG2-ET-NN-D7-NN-FW



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The **KSM02.1B-061C-35N-S1-HG2-ET-NN-D7-NN-FW** is a motor-integrated servo drive from Bosch Rexroth Indramat in the KSM Motor Integrated Servo Drives series. By housing the inverter, control electronics, and synchronous motor together, the unit places motion control directly on the machine frame. This arrangement reduces cabinet wiring, shortens encoder leads, and provides distributed position and speed regulation for conveyors, pick-and-place modules, and other automated machinery. The integrated layout also reduces the number of separate components that must be mounted within the control cabinet.

It draws power from a shared bus at **DC 750 V**, allowing energy regenerated by braking axes to be reused by motoring axes. A single **hybrid connector** carries the DC link, motor phase conductors, feedback signals, and I/O, so installation requires only one cord set. Heat from the embedded drive is dissipated through **natural convection**, keeping the enclosure free of cooling fans. Position data is provided through a **Hiperface** interface connected to an optical encoder with **128 signal periods**, providing absolute single-turn position feedback. The device uses the standard design option, design version 1, and internal series 2 designations.

An **electrically released brake** engages automatically when its 24 V coil is de-energized, holding the connected load during a loss of power. Motion commands travel over **Multi-Ethernet**, allowing PROFINET, EtherNet/IP, or EtherCAT communication to be selected without hardware changes. The drive uses frame size **061**, motor length C, and winding code **35**. This combination supports the basic performance level used in feeder, loader, and gantry axes. A plain shaft is protected by an integral seal that helps prevent grease from washing out and contaminants

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from entering the bearing area. The unit does not include integrated safety technology, so application-level safety functions must be provided through external equipment.

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:**	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:	Without safety technology	**Series:**	2	**Shaft Seal:**	Yes
Shaft Type:	Plain shaft	**Supply Voltage:**	DC 750 V	**Winding Code:**	35
Last Verified:	11/09/2026 6:19 AM				

Contact Us

1620 Old Apex Road, Cary, NC 27513, USA

Toll Free: 1-888-551-3082

International: 1-919-443-0207

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