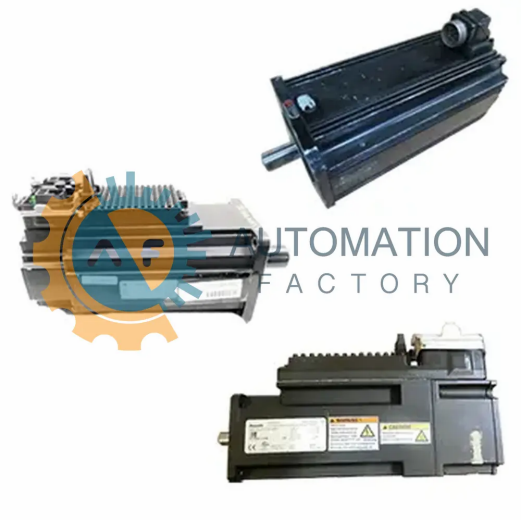
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

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



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The **KSM02.1B-061C-35N-S1-HG2-ET-NN-D7-ES-FW** is a motor-integrated servo drive produced by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. The drive electronics are mounted directly on the synchronous motor, enabling decentralized axis control in packaging machines, handling units, and light machining centers. This arrangement eliminates long motor cables and separate inverter enclosures while providing closed-loop regulation of position, speed, and torque. Locating the drive near the controlled axis also shortens the power path between the electronics and motor.

The unit connects to the machine harness through a **Hybrid Connector**, so power, fieldbus, and service conductors terminate in one molded plug. Internal heat is removed through **natural convection**, eliminating the need for a fan or liquid cooling loop. The power stage operates from a common link rated at **DC 750 V**, allowing multiple axes to share a single supply. Position data are exchanged through the **Hiperface** interface, which carries absolute angle information and electronic motor parameters over two differential pairs. Measurement uses an **optical scanning principle**, providing resistance to interference from stray magnetic fields produced by switching currents. This feedback arrangement supplies the drive with the rotor information required for accurate electronic commutation and closed-loop motion control.

The motor has a frame size of **061** and length code C, providing a compact housing for decentralized installation. Winding code 35 matches the motor's torque characteristics to the basic performance level. The integral holding brake is **electrically released**; it disengages when a 24 V DC supply is present and clamps the plain shaft when

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power is removed. A fitted shaft seal helps prevent lubricant from escaping around the output shaft. Network commands arrive through an external port that supports **Multi-Ethernet**, allowing operation with EtherNet/IP, PROFINET, or Sercos III without changes to the installed communication hardware. The single-turn feedback system resolves each revolution into **128 signal periods**, supplying precise commutation data without multi-turn position counting. The unit is design version 1 and Series 2, indicating its position within this generation of motor-integrated drives.

Specifications

Connection Type:	Hybrid Connector	**Cooling Type:**	Natural convection	**Design Option:**	External master communication Multi-Ethernet
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
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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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