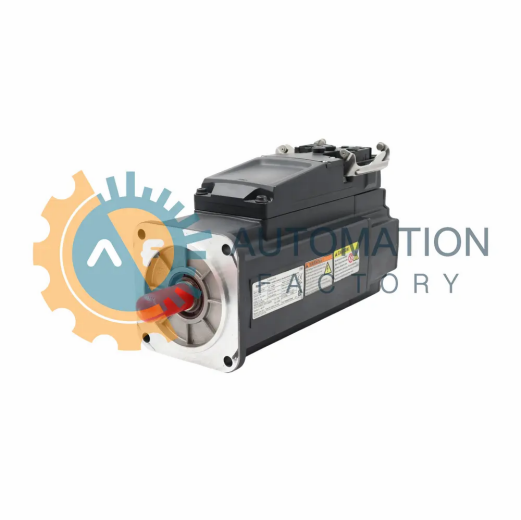
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-35N-S1-HP2-ET-NN-D7-NN-FW



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The **KSM02.1B-061C-35N-S1-HP2-ET-NN-D7-NN-FW** is a motor-integrated servo drive built by Bosch Rexroth Indramat and supplied under the KSM Motor Integrated Servo Drives series. It combines a synchronous motor, power electronics, and a fieldbus interface in one housing, reducing the amount of wiring required between the control cabinet and motor. The device delivers decentralized axis control for packaging, material-handling, and assembly equipment where cabinet space is limited.

The drive operates from a nominal supply of **DC 750 V**, allowing it to connect directly to the high-voltage DC link that feeds multiple axes. Motion commands travel through a **Multi-Ethernet** interface that supports EtherNet/IP, PROFINET, EtherCAT, and SERCOS III without changes to the physical communication connection. Rotor position is measured by a **Hiperface** optical encoder that provides **128 signal periods** per revolution in a single-turn format. This encoder resolution supports precise velocity and position control within the integrated inverter. The stator uses **winding code 35**, matching the drive section to the motor's electromagnetic characteristics for the intended torque and speed range. The electronics use the Basic performance level and do not include integrated safety functions.

Cabling enters through a **hybrid connector** that combines power, communication, and brake conductors in one sealed plug. A shaft seal helps prevent oil and dust from entering at the output end. Heat is removed through **natural convection**, eliminating the need for fans and simplifying installation in protected enclosures. Mechanical power is transferred through a **shaft with a keyway**, providing positive engagement with a compatible coupling.

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The electrically released holding brake clamps the rotor when control power is lost, and its release voltage is **DC 24 V**. The unit has motor size 061 and length C. It is also produced as design version 1 with the Standard design option and belongs to Series 2.

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:	Shaft with keyway	**Supply Voltage:**	DC 750 V	**Winding Code:**	35
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