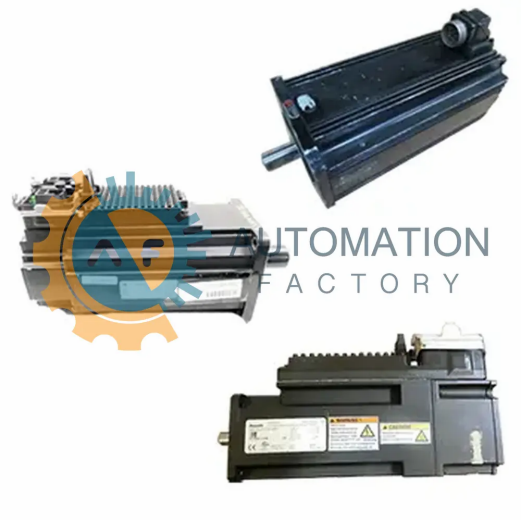
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-35N-M1-HG2-ET-NN-D7-TO-FW



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The **KSM02.1B-061C-35N-M1-HG2-ET-NN-D7-TO-FW** belongs to the KSM Motor Integrated Servo Drives series built by Bosch Rexroth Indramat. As a motor-integrated servo drive, it combines power electronics, position feedback, and a synchronous motor in one housing, allowing axis control equipment to be mounted directly on the machine without a separate cabinet inverter. The unit is intended for decentralized motion tasks in packaging, assembly, and material-handling lines where distributed drives can shorten cable runs and simplify system installation. Its integrated design also reduces the number of separate components required around each controlled axis.

The drive accepts a supply of **DC 750 V** and distributes bus power through a **hybrid connector** that carries logic signals and three-phase motor conductors in one plug. Heat is removed through **natural convection**, eliminating the need for cooling fans or liquid circuits. Network traffic is handled by the **Multi-Ethernet** platform, with the master interface and output coupling supporting EtherNet/IP, PROFINET, and Sercos III topologies. Rotor position data are transmitted over a **Hiperface** connection, allowing the controller to regulate motor position and speed through closed-loop feedback. The optical encoder produces **128 signal periods** per revolution and stores absolute position across multiple turns, supporting restarts without a new homing cycle. The product is Version 1, uses the Basic performance package, and has winding code 35 for the electrical characteristics associated with this motor configuration.

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Axis holding is managed by an **electrically released brake** that secures the load when electrical power is removed. The brake operates from a dedicated **DC 24 V** supply line, separating its control power from the main DC bus. Mechanical output is provided through a **plain shaft with a shaft seal**, which helps prevent lubricant leakage and limits the entry of dust around the shaft opening. Motor size 061 and length C provide a compact housing suitable for indexers and other space-constrained machine axes. The sealed housing allows the motor-integrated drive to operate without external airflow ducts. The unit belongs to Series 2 and does not include integrated safety technology, so any required safety functions must be provided elsewhere in the machine control system.

Specifications

Connection Type:	Hybrid Connector	**Cooling Type:**	Natural convection	**Design Option:**	Multi-Ethernet output coupling
Design Version:	1	**Encoder Interface:**	Hiperface	**Encoder Resolution:**	128 signal periods
Encoder Technology:	Optical	**Encoder Turn Type:**	Multi-turn absolute	**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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