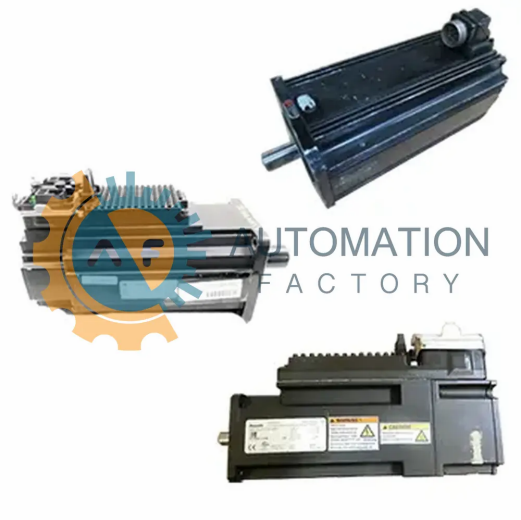
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-35N-M1-HP0-ET-SD-D7-TO-FW



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The **KSM02.1B-061C-35N-M1-HP0-ET-SD-D7-TO-FW** is a motor-integrated servo drive manufactured by Bosch Rexroth Indramat within the KSM Motor Integrated Servo Drives series. This self-contained assembly combines a synchronous motor, encoder, and inverter, limiting field wiring to DC power and network cables. The decentralized design allows axes to mount directly on the machine frame for compact positioning, indexing, and contouring tasks in automated packaging, printing, and material-transfer systems. Integrating the motor and drive electronics also reduces the number of separate components that must be installed inside a control cabinet.

A single cable can carry power, safety, and feedback signals because the drive uses a **hybrid connector**. The aluminum housing dissipates heat through **natural convection**, eliminating the need for fans and filtered airflow. The power stage operates from a **DC 750 V** supply, making it suitable for common intermediate-circuit buses in multi-axis systems. Rotor position is transmitted through a **Hiperface** interface connected to an optical encoder with **128 signal periods**. The encoder provides multi-turn absolute position data through the same hybrid cable, allowing the controller to retain axis position information across multiple shaft revolutions. The product is design version 1.

Communication is provided through **Multi-Ethernet**, which supports EtherNet/IP, PROFINET, or EtherCAT without changes to the installed communication hardware. The motor has a frame size of **061** and a frame length of C. Safe Motion functions, including Safe Brake Control, are integrated through the **Safe Motion with SBC** option. The unit has a Basic performance level and uses winding code **35** for its electrical configuration. Series 2 electronics handle

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motor control, communication, feedback processing, and integrated safety functions. The output shaft is a keyed steel journal that provides positive engagement with a compatible coupling or driven component. A shaft seal limits the entry of contaminants around the output interface. The unit is supplied without a holding brake, allowing the shaft to move when drive power and commanded torque are removed.

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:**	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:**	Safe Motion (with SBC)
Series:	2	**Shaft Seal:**	Yes	**Shaft Type:**	Shaft with keyway
Supply Voltage:	DC 750 V	**Winding Code:**	35	**Last Verified:**	11/09/2026 4:23 PM

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