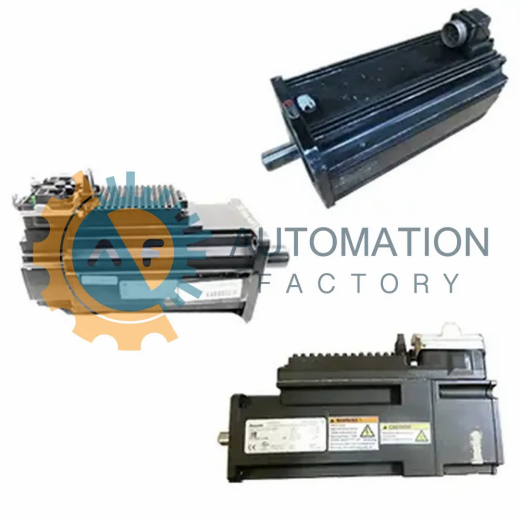
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-35N-M1-HP2-ET-SD-D7-NN-FW



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The **KSM02.1B-061C-35N-M1-HP2-ET-SD-D7-NN-FW** is a motor-integrated servo drive produced by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. This self-contained unit combines the power electronics, feedback system, and servo motor in a single enclosure. Installing the drive directly on the machine frame reduces cabinet wiring and supports decentralized motion control in automated packaging, material-handling, and small assembly systems. The integrated arrangement also shortens the connections between the inverter and motor, helping reduce the amount of separate equipment required around each motion axis.

The drive operates from a bus voltage of **DC 750 V**, allowing it to exchange energy through a shared DC bus. Its onboard inverter communicates with higher-level controllers over **Multi-Ethernet** networks, supporting multiple real-time communication protocols through one interface. Rotor position data are transmitted through a **Hiperface** interface from an optical multi-turn absolute encoder that retains position across multiple shaft revolutions. The electrically released brake uses **DC 24 V** to release the shaft and engages when electrical power is removed. Heat is dissipated through **natural convection**, eliminating the need for additional fans or liquid-cooling lines. A hybrid connector combines power, control signals, and network communication in one connection, which reduces the number of separate cables routed to the unit. Integrated **Safe Motion with SBC** provides internal motion monitoring and safe brake control for applications that require coordinated safety functions.

The motor uses a **shaft with a keyway** for positive torque transfer to a gearbox, pulley, or rigid coupling. A factory-installed shaft seal helps prevent lubricant and contaminants from reaching the internal bearings. The motor

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has a frame size of **061** and frame length C, providing a compact profile for installations with limited mounting space. Encoder feedback provides **128 signal periods** per revolution for accurate speed and position control during interpolated movement. Winding code 35 identifies the electrical configuration matched to the drive's basic performance level. The unit uses the standard design option, design version 1, and Series 2 configuration. These design choices provide a consistent mechanical layout for decentralized machine installations without requiring separate inverter and motor enclosures.

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:**	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:	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 8:33 PM				

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