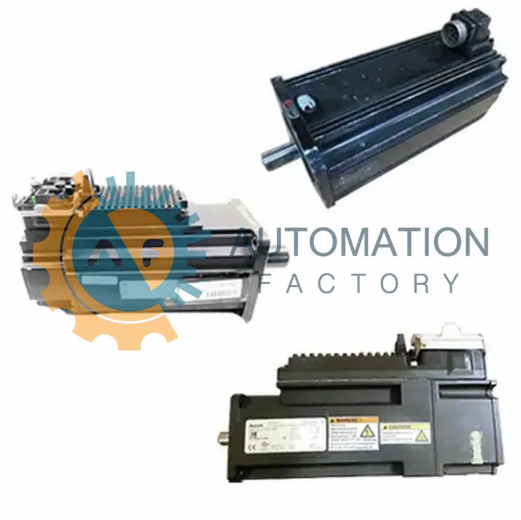
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-61N-M1-HP2-ET-NN-D7-NN-FW



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Bosch Rexroth Indramat manufactures the **KSM02.1B-061C-61N-M1-HP2-ET-NN-D7-NN-FW** for the KSM Motor Integrated Servo Drives series. This motor-integrated servo drive places power electronics directly on the motor to decentralize axis control in automated assembly lines and other equipment. The unit uses design version 1 with the standard option and basic performance level. Its motor size is 061, and its frame length is C, resulting in a compact frame with moderate torque capability. The unit belongs to Series 2, and winding code 61 identifies its electromagnetic configuration.

In typical installations, the drive uses a **hybrid connector** that consolidates power, feedback, and network lines in one sealed plug. This arrangement reduces cabinet wiring and limits the number of separate cable entries. The power stage accepts **DC 750 V** from a common bus and dissipates heat through **natural convection**, eliminating the need for cooling fans. Motion commands arrive through **Multi-Ethernet**, which supports EtherCAT, SERCOS III, or PROFINET without additional option cards. Load holding is provided by an electrically released brake that engages when its **DC 24 V** control voltage is removed, preventing vertical loads from drifting when power is unavailable. A shaft seal protects the bearings from splashes and helps prevent contaminants from entering the motor housing.

Position data are processed through the **Hiperface** interface, which connects the optical encoder to the drive electronics. The encoder generates **128 signal periods** per revolution for accurate position measurement. Its **multi-turn absolute feedback** stores position across multiple shaft revolutions, allowing the controller to retain axis position without repeating a homing cycle after power is restored. Mechanical output is delivered through a

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shaft with a keyway, providing positive torque transfer to pulleys, gearboxes, or rigid couplings. The optical sensing principle supports consistent signal interpolation across the operating speed range and provides the position information required for closed-loop motion control.

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:	Without safety technology	**Series:**	2	**Shaft Seal:**	Yes
Shaft Type:	Shaft with keyway	**Supply Voltage:**	DC 750 V	**Winding Code:**	61
Last Verified:	11/07/2026 11:40 AM				

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