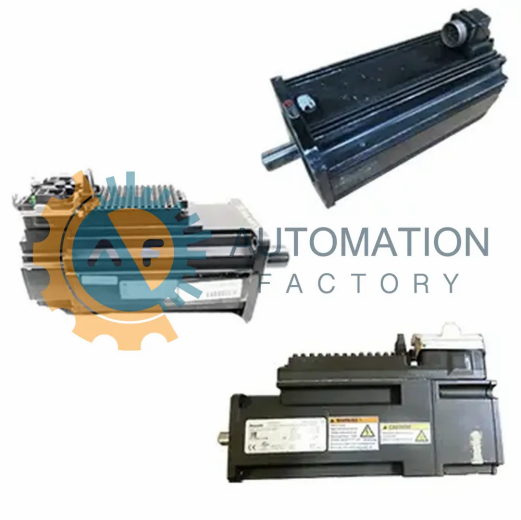
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

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



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The **KSM02.1B-061C-35N-M1-HP0-ET-NN-D7-NN-FW** is a motor-integrated servo drive produced by Bosch Rexroth Indramat within the KSM Motor Integrated Servo Drives series. In this architecture, the power stage, position controller, I/O, and communication components are mounted on the motor itself, so the axis can be placed anywhere on the machine frame without a separate cabinet inverter. The unit delivers closed-loop speed and position regulation for packaging stations, pick-and-place gantries, and light assembly robots while minimizing wiring complexity and panel heat load.

Driven from a **DC 750 V** shared bus, the KSM02 axis can operate beside other decentralized drives without individual rectifiers. Power, feedback, and Ethernet connections share a single **hybrid connector**, streamlining field installation and service. Internal electronics dissipate heat through **natural convection**, so no cooling fans are required. Rotor position is captured by a **Hiperface** optical encoder that provides **128 signal periods** per mechanical revolution, giving high interpolation fidelity for smooth velocity loops. Process commands and diagnostic data reach the controller through a **Multi-Ethernet** interface that supports EtherNet/IP, PROFINET, SERCOS III, and EtherCAT without hardware changes.

The electromechanical assembly has a frame size of **061** and length code C, supplying moderate inertia for medium-torque feed axes. Output torque is delivered through a **shaft with a keyway**, and a factory-installed seal blocks lubricant splashes and airborne particles from entering the bearing gap. The motion package has a **basic performance level** and is supplied without a holding brake, so external clamping is required for vertical loads

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when power is removed. The unit uses the standard design option in Series 2 and Design Version 1. Its winding code is 35, which balances copper loss against the thermal capacity of the aluminum stator housing.

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:**	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:**	Without safety technology
Series:	2	**Shaft Seal:**	Yes	**Shaft Type:**	Shaft with keyway
Supply Voltage:	DC 750 V	**Winding Code:**	35	**Last Verified:**	11/08/2026 5:23 PM

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