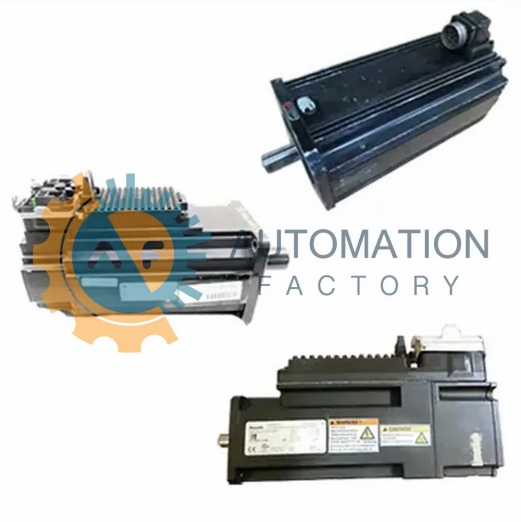
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-076C-35N-S1-HP0-ET-S3-D7-NN-FW



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The **KSM02.1B-076C-35N-S1-HP0-ET-S3-D7-NN-FW** is an integrated servo drive from Bosch Rexroth Indramat in the KSM Motor Integrated Servo Drives series. By combining power electronics with the 076-frame synchronous motor, it shortens cable runs and reduces cabinet requirements in modular machines. Intended for decentralized motion axes, the unit accepts power from a DC bus and delivers closed-loop torque and position control directly at the mechanical load.

The drive operates with a bus voltage of **DC 750 V**, allowing it to share energy with other axes on a common bus. Command and diagnostic data move through the **Multi-Ethernet** interface, so the same hardware supports EtherNet/IP, SERCOS over Ethernet, and PROFINET without additional cards. Rotor position feedback comes from a **Hiperface** encoder that provides **128 signal periods** per revolution. Its optical scanning and single-turn format support accurate position interpolation. Heat is dissipated through **natural convection**, permitting installation on open frames without cooling fans. The unit is supplied without a holding brake, has design version 1 in Series 2, and provides the basic performance level for general automation.

Power, signal, and DC bus conductors terminate in a single **hybrid connector**, reducing wiring points during installation. Functional stop and speed-limited modes are handled by the integrated **Safe Motion without SBC** circuitry, eliminating the need for external contactors in category-oriented applications. A **shaft with a keyway** follows the DIN key convention and transmits torque, while an installed shaft seal helps retain lubricant. Stator winding code **35** matches the drive current limits, and the length C housing balances continuous torque with a

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compact depth. The unit uses the standard mechanical design option for the KSM02 generation.

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:**	Single-turn	**Holding Brake:**	Without holding brake
Master Communication Protocol:	Multi-Ethernet	**Motor Length:**	C	**Motor Size:**	076
Performance Level:	Basic	**Product Type:**	Motor-Integrated Servo Drive	**Safety Technology:**	Safe Motion (without SBC)
Series:	2	**Shaft Seal:**	Yes	**Shaft Type:**	Shaft with keyway
Supply Voltage:	DC 750 V	**Winding Code:**	35	**Last Verified:**	11/07/2026 10:19 AM

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