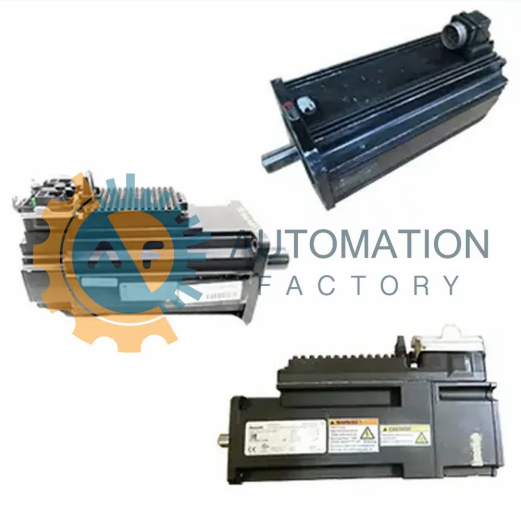
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-076C-35N-S1-HG0-ET-L3-D7-TO-FW



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The **KSM02.1B-076C-35N-S1-HG0-ET-L3-D7-TO-FW** is produced by Bosch Rexroth Indramat for Series 2 of the KSM Motor Integrated Servo Drives. It combines servo motor mechanics and drive electronics in one enclosure, providing a decentralized motion axis that reduces cabinet space and wiring requirements. The assembly corresponds to design version 1 and has a basic performance level. Its motor section uses frame size 076 with length code C, providing a torque range suited to medium-duty stations in material-handling and assembly lines.

The integrated power stage draws from a **750 V DC link**, allowing it to connect directly to a high-voltage bus distributed by IndraDrive supplies. Heat generated by the electronics is removed through **natural convection**. No fans are fitted, which simplifies maintenance and helps keep the housing sealed. Power, feedback, and network lines are combined in a hybrid connector, while the **Multi-Ethernet output coupling** provides access to Sercos III, EtherNet/IP, PROFINET, and EtherCAT through one port. Rotor position is sensed through a **Hiperface interface**. The optical encoder delivers **128 signal periods per revolution** and uses a **single-turn design**, providing absolute position information for one mechanical rotation without batteries.

A machined **plain shaft** is protected by a factory-installed shaft seal, allowing installation in areas exposed to light washdown while helping prevent grease leakage. Functional safety is provided by **Safe Torque Off (STO)**, which disables torque-producing power at the inverter output when the enable circuit opens. The drive section uses winding code **35** to match the electrical characteristics of the motor and drive. The unit is supplied without a holding brake, so vertical loads must be secured by an external brake or another suitable mechanical restraint when power

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is 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:**	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 Torque Off (STO)
Series:	2	**Shaft Seal:**	Yes	**Shaft Type:**	Plain shaft
Supply Voltage:	DC 750 V	**Winding Code:**	35	**Last Verified:**	11/09/2026 9:22 PM

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