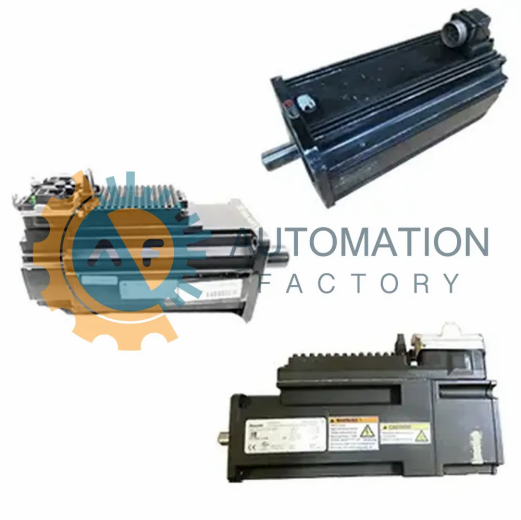
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-076C-35N-S3-HP0-ET-L3-D7-NN-FW



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The **KSM02.1B-076C-35N-S3-HP0-ET-L3-D7-NN-FW** is a motor-integrated servo drive produced by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. By combining a permanent-magnet motor with an onboard inverter, it delivers decentralized motion control without a separate cabinet-mounted drive. In automated production lines, the unit mounts close to the load, reducing cable runs and simplifying installation.

The drive accepts a supply of **DC 750 V**, which is the intermediate-circuit voltage distributed from a central power supply. Power, control, and safety signals are routed through a single **hybrid connector**, minimizing wiring time. Heat generated by the inverter is removed through **natural convection**, so no forced-air fans are required. Position feedback is provided through a **Hiperface** interface, and the encoder generates **16 signal periods** per mechanical revolution, giving adequate resolution for indexing and general handling tasks. The sensing element uses capacitive technology to withstand vibration and temperature swings, and it operates as a single-turn device that reports absolute position within one revolution.

On the control side, real-time commands are exchanged over **Multi-Ethernet**, allowing integration with EtherNet/IP, PROFINET, or EtherCAT networks. The embedded safety circuit supports **Safe Torque Off (STO)**, allowing machines to meet Category 3 PL d requirements without separate contactors. The motor has a frame size of **076** and length code C, a combination that balances torque and overall size for packaging or assembly axes. A **shaft with a keyway** provides positive mechanical coupling, and a shaft seal is fitted to limit ingress. The unit is supplied without a holding brake, so static load retention must be handled externally. The product has a Basic performance

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level, while winding code 35 sets the electrical constants. It follows design version 1 in the standard execution of Series 2.

Specifications

Connection Type:	Hybrid Connector	**Cooling Type:**	Natural convection	**Design Option:**	Standard
Design Version:	1	**Encoder Interface:**	Hiperface	**Encoder Resolution:**	16 signal periods
Encoder Technology:	Capacitive	**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:**	Shaft with keyway
Supply Voltage:	DC 750 V	**Winding Code:**	35	**Last Verified:**	11/09/2026 1:07 AM

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