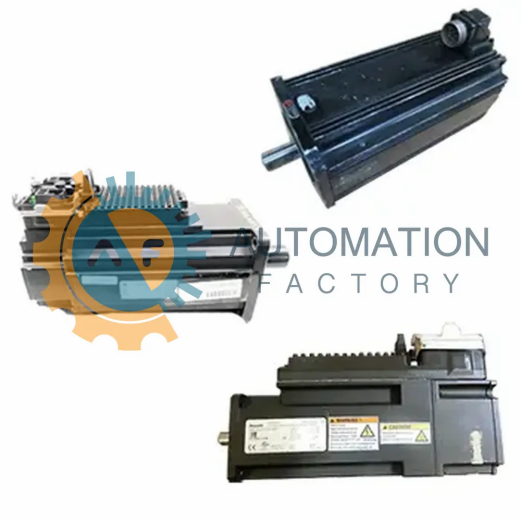
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-076C-35N-M1-HP0-ET-L3-D7-ES-FW



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The **KSM02.1B-076C-35N-M1-HP0-ET-L3-D7-ES-FW** is produced by Bosch Rexroth Indramat as part of the KSM Motor Integrated Servo Drives series. It combines servo-grade mechanics with embedded drive electronics, allowing an axis to be mounted directly on the machine without a separate control cabinet inverter. This decentralized architecture is intended for multi-axis production lines where shorter cable runs and reduced panel heat simplify installation.

The drive receives bus power from a high-energy DC link rated at **DC 750 V**. Power, signals, and safety I/O are combined in a **hybrid connector**, minimizing cabling while matching the Series 2 mechanical outline. Internal components are cooled by **natural convection**, so no fan is required. Command data reach the unit through **Multi-Ethernet** ports, which provide the external master communication option selected for Design Version 1. Position feedback is returned over the **Hiperface** encoder interface. The optical sensor inside the motor delivers 128 signal periods per revolution. The C-length stator uses winding code 35 and fits the 076 frame size, providing the basic performance level for this product type.

Functional safety is provided by the integrated **Safe Torque Off (STO)** circuit, which removes drive energy without mechanical intervention. The encoder uses a **multi-turn absolute format** to retain the shaft position across multiple revolutions, so homing is unnecessary after a power cycle. Because the model is supplied **without a holding brake**, an external load-holding device must be used when static torque is required. Output motion is transmitted through a **shaft with a keyway**, allowing positive engagement with a compatible coupling or driven

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component. A shaft seal helps prevent dust or coolant from entering around the output shaft. The integrated optical feedback supports closed-loop position and speed control directly within the decentralized drive. A single DC supply connection supports installation with other compatible axes on a shared power bus.

Specifications

Connection Type:	Hybrid Connector	**Cooling Type:**	Natural convection	**Design Option:**	External master communication Multi-Ethernet
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:**	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 6:47 AM

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