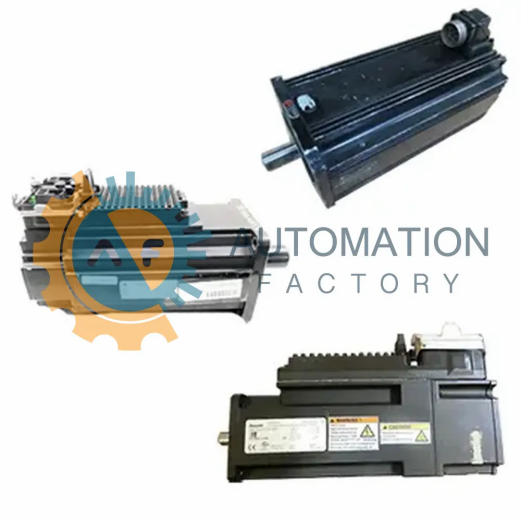
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

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



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The **KSM02.1B-076C-35N-M1-HP0-ET-L3-D7-NN-FW** is a motor-integrated servo drive manufactured by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives Series 2. By combining a permanent-magnet synchronous motor with an onboard inverter, the unit removes the need for a separate cabinet-mounted amplifier and streamlines decentralized motion control on packaging, assembly, and conveyor modules. Direct mounting near the axis keeps cable runs short while the drive delivers the closed-loop torque, speed, and position control required in automated production lines.

The drive accepts a bus voltage of **DC 750 V**, allowing multiple KSM axes to share energy through a common DC link. Heat is removed solely by **natural convection**, eliminating the need for fans or liquid coolers. Power, control, and feedback signals travel through a **hybrid connector**, reducing wiring points in the machine harness. Functional safety is provided by **Safe Torque Off (STO)**; when the STO circuit is activated, torque output is inhibited without disconnecting the supply. Position feedback comes from a Hiperface encoder that supplies **128 signal periods** per revolution for fine interpolation. The encoder uses optical scanning, while winding code 35, the standard design option, and design version 1 identify the electrical and operating configuration.

The sensing element is a **multi-turn absolute encoder**, so shaft position across several thousand revolutions is retained after power loss. Communication with higher-level controllers uses **Multi-Ethernet**, enabling operation with Sercos III, EtherNet/IP, or PROFINET through software selection. The mechanical interface uses motor size **076** and length C, and it includes a shaft with a keyway and a sealed front bearing to help block contaminants. The unit

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has a **Basic** performance level and is supplied without a holding brake. This arrangement leaves the rear section unobstructed while allowing the keyed shaft to transfer torque through a positively engaged coupling.

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:**	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:**	11/10/2026 10:10 AM

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Shipping Options

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