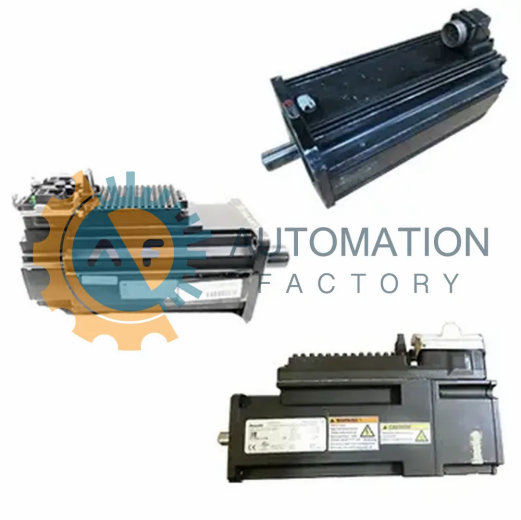
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

# KSM02.1B-076C-35N-M1-HP2-ET-SD-D7-NN-FW



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The **KSM02.1B-076C-35N-M1-HP2-ET-SD-D7-NN-FW** is a motor-integrated servo drive in the KSM Motor Integrated Servo Drives series produced by Bosch Rexroth Indramat. By combining a synchronous servomotor with power electronics in one housing, it provides decentralized motion control for machines that share a common DC bus. The unit mounts directly on the machine frame, reducing cabinet space and shortening feedback, power, and network cabling. It is intended for indexing tables, packaging machines, and assembly cells that require precise torque, speed, and position control without separate drive modules.

Electrical integration centers on a **hybrid connector** that carries DC input, network signals, and brake power through one plug, simplifying installation. The drive accepts a bus voltage of **750 VDC**, matching Rexroth supply modules used in multi-axis systems. Heat is removed by **natural convection**, so no fan maintenance is required when the motor operates within its thermal limits. Control data reach the onboard processor over **Multi-Ethernet**, allowing the use of EtherNet/IP, PROFINET, or EtherCAT without hardware changes. Position feedback enters through the **Hiperface** interface, and its optical multi-turn encoder provides 128 signal periods per revolution to support fine interpolation for tight velocity control. The unit has size 076, length C, and winding code 35. Its standard design version 1 maintains consistent mechanical dimensions across the series.

An **electrically released brake** holds the rotor when power is removed and operates with a **24 VDC** supply. The drive supports **Safe Motion with SBC** functions, enabling certified safe torque off, Safe Stop 1, and speed monitoring without external relays. Mechanical power is transmitted through a **shaft with a keyway**, while a

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factory-installed shaft seal protects the bearing set against splashes and dust. The unit has a Basic performance level, and its single hybrid connection keeps auxiliary wiring compact.

## 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:** | Electrically Released |
| **Holding Brake Voltage:** | DC 24 V | **Master Communication Protocol:** | Multi-Ethernet | **Motor Length:** | C |
| **Motor Size:** | 076 | **Performance Level:** | Basic | **Product Type:** | Motor-Integrated Servo Drive |
| **Safety Technology:** | Safe Motion (with SBC) | **Series:** | 2 | **Shaft Seal:** | Yes |
| **Shaft Type:** | Shaft with keyway | **Supply Voltage:** | DC 750 V | **Winding Code:** | 35 |
| **Last Verified:** | 11/09/2026 7:02 PM | | | | |

## Contact Us


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