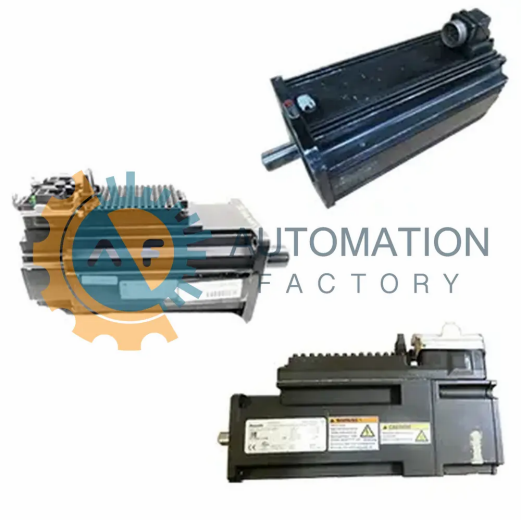
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

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



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The **KSM02.1B-076C-35N-M1-HP0-ET-SD-D7-NN-FW** is a motor-integrated servo drive manufactured by Bosch Rexroth Indramat within the KSM Motor Integrated Servo Drives series. By combining the motor, power electronics, and feedback hardware in one enclosure, it provides a decentralized axis that reduces cabinet space and wiring in automated packaging, material-handling, and light assembly equipment. The device belongs to Series 2 of the platform and is intended for applications that require compact motion modules mounted directly on the machine frame.

The drive accepts a DC-link supply of **750 V DC**, allowing it to share a common bus with other inverters. Thermal losses are removed through **natural convection**, eliminating the need for serviceable cooling fans. Power conductors, fieldbus lines, and Safe Torque Off channels enter the housing through a single **hybrid connector**, simplifying line-through installation on multi-axis gantries. Rotor position is reported over **Hiperface**, and one mechanical revolution is represented by **128 signal periods**. This feedback resolution supports the current regulators as they control the motor with winding code 35.

The servo uses a **Multi-Ethernet interface** for controller communication, allowing EtherNet/IP, PROFINET, or EtherCAT to be selected without hardware changes. The feedback assembly uses an **optical sensor** with a multi-turn absolute track, retaining position information across power cycles without batteries. Integrated **Safe Motion with SBC** provides certified stopping and monitoring functions over the network. Mechanical output is provided by a **shaft with a keyway**, and a shaft seal helps limit the entry of contaminants. The unit has motor size 076 and

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length code C, creating a compact housing for direct machine mounting. It has the Basic performance level, the Standard design option, and design version 1. The drive is supplied without a holding brake, so an external mechanism or motor torque must secure a stationary load when necessary.

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 Motion (with SBC)
Series:	2	**Shaft Seal:**	Yes	**Shaft Type:**	Shaft with keyway
Supply Voltage:	DC 750 V	**Winding Code:**	35	**Last Verified:**	11/08/2026 3:52 AM

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