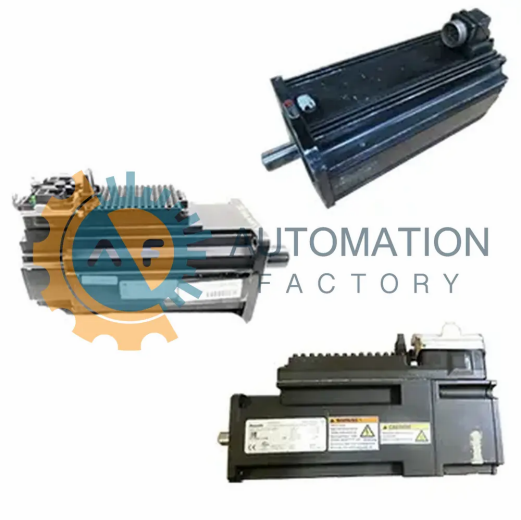
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-076C-35N-M1-HG0-ET-L3-D7-NN-FW



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The **KSM02.1B-076C-35N-M1-HG0-ET-L3-D7-NN-FW** is a motor-integrated servo drive produced by Bosch Rexroth Indramat for decentralized automation. As part of the KSM Motor Integrated Servo Drives series, it combines a synchronous servo motor and drive electronics in one housing to reduce cabinet wiring and shorten installation time on modular machine axes. In factory production lines, the unit provides closed-loop position, speed, and torque control directly at the load point. Locating the drive electronics near the motor also reduces the number of separate components required inside the main control cabinet.

The drive operates from a **750 V DC** supply bus, allowing it to connect to a common DC network that feeds multiple axes without individual rectifiers. Thermal energy is removed through **natural convection**, eliminating active fans and permitting operation where forced airflow is unavailable. Position feedback comes from a **Hiperface encoder** that delivers **128 signal periods** per mechanical revolution, providing fine incremental data for smooth motion control. Communication with the line controller uses **Multi-Ethernet**, which supports industrial networks such as EtherNet/IP, PROFINET, and EtherCAT. The motor has size 076, length C, and winding code 35. It is supplied without a holding brake, so an external clamp or another suitable mechanism must secure loads that could move when drive power is removed.

Functional safety is provided by **Safe Torque Off (STO)**, which disables the power stage and prevents the motor from producing torque until the safety circuit is cleared. A single **hybrid connector** carries DC power, communication signals, and the required supply connections, reducing cable runs in daisy-chain layouts. The motor

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transmits torque through a **plain shaft**, while a shaft seal helps protect the internal bearings from coolant and dust. The feedback module uses an **optical sensing path** to reduce the effects of electrical noise and signal drift during extended operation. The unit has design version 1, a basic performance level, and Series 2 mechanics. Its decentralized arrangement supports modular machine layouts in which each axis requires local motion control and a shared network connection.

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:**	Plain shaft
Supply Voltage:	DC 750 V	**Winding Code:**	35	**Last Verified:**	11/07/2026 12:10 AM

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