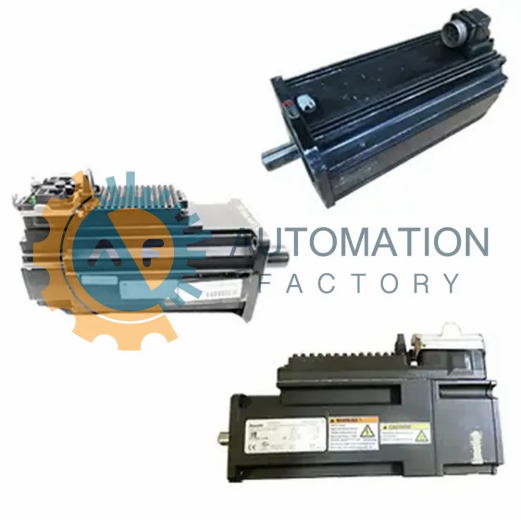
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-076C-35N-M3-HG0-ET-L3-D7-NN-FW



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The **KSM02.1B-076C-35N-M3-HG0-ET-L3-D7-NN-FW** is a motor-integrated servo drive manufactured by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. It combines a servomotor, power electronics, and a fieldbus interface in one housing, allowing installation directly on the machine frame and shortening cable runs to local actuators. This arrangement supports decentralized systems in which each axis handles its own control loops and fault management. The integrated design also frees cabinet space in packaging, assembly, and small material-handling systems.

The drive section is supplied by a nominal bus voltage of **DC 750 V**, allowing connection to a shared DC link. Heat is removed through **natural convection**, eliminating the need for cooling fans and their associated maintenance. Power, signal, and brake conductors are combined in a single **hybrid connector**, which reduces the number of separate connections and simplifies cable routing. The mechanical end bell has a **size code of 076**, providing a compact flange diameter while accommodating winding code 35 within motor length C. Feedback is transmitted through a **Hiperface interface**, allowing the controller to obtain absolute rotor position after power-up. The unit has design version 1 and a standard housing. It is supplied without a holding brake, so stationary load retention must be provided by drive torque or an external mechanism when necessary.

Encoder signal generation uses **capacitive scanning**, which provides resistance to the effects of dust and oil that can interfere with optical systems. Real-time network communication is supported through **Multi-Ethernet**, allowing the unit to connect to compatible industrial Ethernet networks. Functional safety is provided by **Safe**

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Torque Off (STO), which prevents the drive from producing motor torque while retaining the control functions needed for system diagnostics. Mechanical output is transferred through a **plain shaft with a shaft seal**, allowing direct connection to precision gearheads or pulleys while helping prevent lubricant and contaminants from entering the motor housing. The plain shaft is suitable for clamping couplings that do not require a keyway. The sealed interface also supports installations where the drive may be exposed to normal machine-process residue.

Specifications

Connection Type:	Hybrid Connector	**Cooling Type:**	Natural convection	**Design Option:**	Standard
Design Version:	1	**Encoder Interface:**	Hiperface	**Encoder Resolution:**	16 signal periods
Encoder Technology:	Capacitive	**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:**	11/08/2026 1:19 AM

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