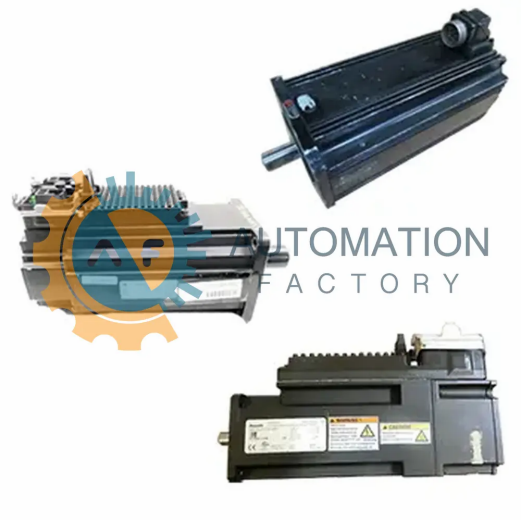
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-076C-35N-M3-HP0-ET-L3-D7-NN-FW



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The **KSM02.1B-076C-35N-M3-HP0-ET-L3-D7-NN-FW** is a motor-integrated servo drive manufactured by Bosch Rexroth Indramat as part of the KSM Motor Integrated Servo Drives series. By integrating power electronics, feedback conversion, and a permanent-magnet servomotor into one compact housing, the unit provides decentralized motion control for automated assembly cells, material-handling stations, and other industrial axes that benefit from reduced cabinet space and short cable runs. This arrangement simplifies installation and reduces electromagnetic interference during high-speed indexing tasks. Locating the control electronics at the motor also reduces the amount of wiring required between the machine and the control cabinet.

The drive operates from a bus-fed supply of **DC 750 V**, allowing multiple drives to share a common intermediate circuit and recover braking energy. Command data reach the drive through a **Multi-Ethernet interface** that supports several real-time industrial communication protocols without additional hardware. Position feedback uses a **Hiperface link** connected to a capacitive multi-turn absolute encoder. The encoder produces **16 signal periods per revolution** for accurate position interpolation. The integrated safety system provides **Safe Torque Off**, which disables torque-producing power when a safety stop is requested. Winding code 35 indicates the electrical arrangement used for this motor size, while design version 1 and the Basic performance level identify the drive configuration for the Series 2 platform.

The motor has a frame size of **076** and a length code of C, providing a compact housing for decentralized installation. Its steel output interface is a **shaft with a keyway**, allowing pulleys or rigid couplings to transmit

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torque without slipping. A shaft seal protects the internal bearings from coolant and dust entering around the output shaft. Heat is removed through **natural convection**, eliminating the need for fans and supporting installation outside a conventional control cabinet. Power, signal, and brake conductors are routed through a single**hybrid connector**, reducing the number of separate cable connections required at the motor. The unit has a standard design option and is supplied without a holding brake, so an external method must secure the load when holding force is required after power is removed.

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:**	Shaft with keyway
Supply Voltage:	DC 750 V	**Winding Code:**	35	**Last Verified:**	11/09/2026 7:48 PM

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