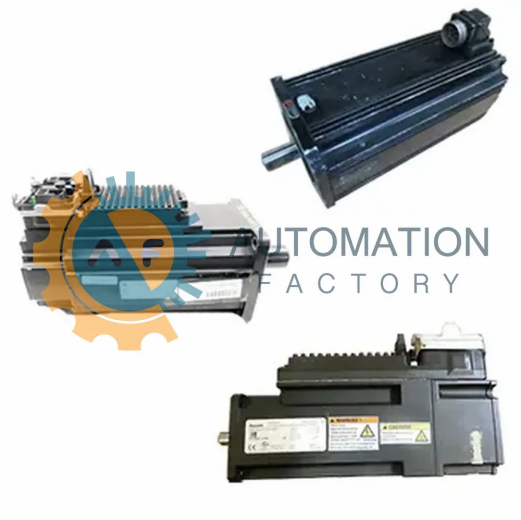
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-071C-35N-M1-HP0-ET-L3-D7-NN-FW



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The **KSM02.1B-071C-35N-M1-HP0-ET-L3-D7-NN-FW** is a motor-integrated servo drive produced by Bosch Rexroth Indramat within the KSM Motor Integrated Servo Drives series. By combining drive electronics and a permanent-magnet motor in one enclosure, it delivers decentralized torque control for conveyors, packaging axes, and pick-and-place modules without separate cabinet inverters. This design reduces wiring runs, simplifies installation, and allows direct mounting on moving machine parts.

The unit is powered from a DC link of **750 V DC**, and heat is removed through **natural convection**, so no fans are required inside the housing. Field connections are made through a single **hybrid connector** that carries power, signals, and safety wiring in one molded plug. Functional safety is implemented with **Safe Torque Off (STO)**, which disconnects the drive stage when the safety circuit opens. Real-time control data pass over **Multi-Ethernet**, permitting the unit to join EtherNet/IP, PROFINET, or EtherCAT networks through protocol configuration. The motor has size 071 and length code C, while winding code 35 establishes the electrical resistance and inductance profile for medium-inertia loads. The drive is built to Series 2 and Design Version 1. It also has the standard design option and a basic performance level for general automation.

Position feedback uses a **Hiperface** interface that transmits an optical scale of **128 signal periods** per revolution. The unit provides **multi-turn absolute position tracking**, so the controller receives persistent shaft position even after power loss. An optical scanning method minimizes sensitivity to electrical noise during high-speed updates. Because the module is supplied without a holding brake, applications that need static load retention must rely on

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external clamping or drive torque. Output torque is delivered through a **shaft with a keyway**. A shaft seal is fitted to block coolant or dust from entering at the bearing face.

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:**	071
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 6:36 AM

Contact Us

1620 Old Apex Road, Cary, NC 27513, USA

Toll Free: 1-888-551-3082

International: 1-919-443-0207

Fax: 1-919-867-6204

Email: sales@wakeindustrial.com

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