Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-071C-35N-M3-HP0-ET-NN-D7-NN-FW



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The **KSM02.1B-071C-35N-M3-HP0-ET-NN-D7-NN-FW** is an integrated servo axis manufactured by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. The version 1 design belongs to series 2 and combines the power stage, control electronics, and a 071-frame synchronous motor in one compact housing. Installed directly on the machine frame, it delivers closed-loop torque, speed, and position control for conveyors, pick-and-place axes, and other distributed automation tasks while minimizing control-cabinet wiring.

The drive receives power from a **750 V DC** common bus, allowing multiple axes to share electrical energy through the same connection. The motor has a frame size of **071** and a length code of **C**, which correspond to its flange spacing, shaft height, and stack depth. Winding code **35** identifies the resistance and inductance values used by the integrated inverter for current regulation. Position and speed feedback is transmitted through a **Hiperface interface** that supports electronic motor data. The unit has a capacitive multi-turn encoder and a keyed shaft with a seal that helps prevent oil spray from reaching internal components. It is supplied without a holding brake, so an external mechanism or drive-applied torque must secure stationary loads when required. The unit has a basic performance level, follows the standard design option, and does not include integrated safety technology.

Field connections use a **hybrid connector** that combines DC power, 24 V control power, and network wiring in one plug, simplifying daisy-chain installation. Motion commands and diagnostic data travel over **Multi-Ethernet**, which supports Sercos III, EtherNet/IP, PROFINET, and EtherCAT communication. The encoder provides **16 signal periods** per revolution, allowing the drive to interpolate position data for smooth velocity control. Heat generated during

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operation is removed through **natural convection**, so the unit does not require external fans or liquid-cooling circuits when operated within its permitted ambient conditions. Direct machine mounting shortens cable routes between the motor, inverter, and network connection while preserving decentralized control at the axis.

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:**	071
Performance Level:	Basic	**Product Type:**	Motor-Integrated Servo Drive	**Safety Technology:**	Without safety technology
Series:	2	**Shaft Seal:**	Yes	**Shaft Type:**	Shaft with keyway
Supply Voltage:	DC 750 V	**Winding Code:**	35	**Last Verified:**	11/09/2026 3:52 PM

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