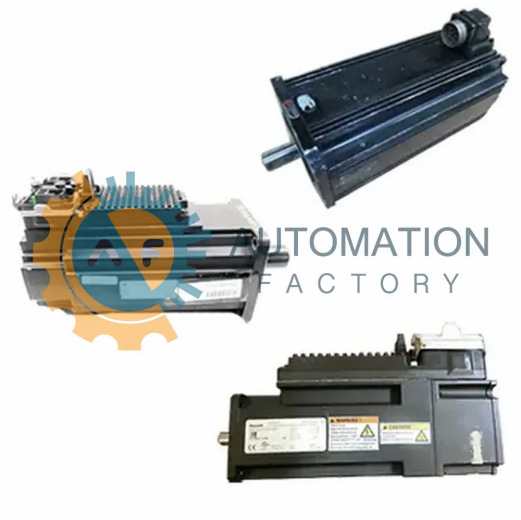
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-041C-42N-M3-HG2-ET-L3-D7-NN-FW



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The **KSM02.1B-041C-42N-M3-HG2-ET-L3-D7-NN-FW** is a motor-integrated servo drive manufactured by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. By combining a servo motor and drive electronics in one housing, it reduces panel space and wiring inside automated machinery. This unit has a Basic performance level and a series index of 2, making it a compact axis solution for coordinated motion in packaging, material-handling, and assembly equipment.

The drive is supplied from a **DC 750 V** bus, so it connects directly to high-voltage machine power distribution without an intermediate AC rectifier. Power, signals, and safety lines enter through a **hybrid connector**, which simplifies installation because one plug handles motor power, brake control, STO, and Ethernet lines. Heat is removed by **natural convection**, so external fans are unnecessary when the required mounting clearances are maintained. The **electrically released holding brake** operates from a dedicated **DC 24 V** supply and secures vertical or suspended loads when power is removed. The motor has a size of 041, a length of C, a plain shaft, and a winding code of 42. An integral shaft seal protects the internal bearings when the unit is exposed to lubricants or light washdown.

Position feedback is transmitted through a **Hiperface interface** that carries absolute multi-turn data with a resolution of **16 signal periods**. The sensing element uses a **capacitive principle**, which maintains accuracy in areas with oil mist or magnetic fields. Machine safety is supported by the integrated **Safe Torque Off (STO)** channel, which removes drive-generated torque without requiring external contactors. Communication with the

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motion controller is handled through Multi-Ethernet for real-time command and status exchange. The internal design uses the Standard option and version 1 for operation within the platform.

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:**	Electrically Released
Holding Brake Voltage:	DC 24 V	**Master Communication Protocol:**	Multi-Ethernet	**Motor Length:**	C
Motor Size:	041	**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:**	42
Last Verified:	11/07/2026 2:43 PM				

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