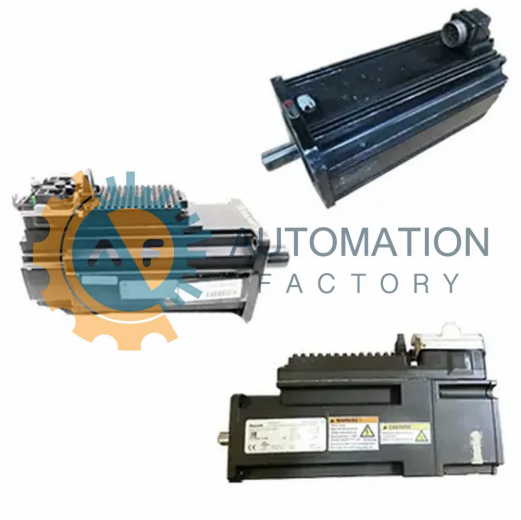
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-041C-42N-M3-HG0-ET-L3-D7-NN-FW



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The **KSM02.1B-041C-42N-M3-HG0-ET-L3-D7-NN-FW** is a motor-integrated servo drive produced by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. By combining a synchronous motor with drive and control electronics in one housing, it decentralizes motion control and reduces cabinet wiring. This unit is installed directly on the machine frame to power medium-torque axes in automated assembly stations, packaging lines, and material-handling cells.

The drive operates from a **DC 750 V** bus, so it connects to a common DC link shared with other axis modules. Power, feedback, and network signals pass through a single **hybrid connector**, simplifying installation. Heat is removed by **natural convection**, eliminating fans and related maintenance. Position feedback is exchanged over **Hiperface**, and the encoder produces **16 signal periods** per mechanical revolution, which the controller interpolates for fine position control. A multi-turn absolute encoder tracks shaft rotations without a battery. The motor has size 041, length C, and winding code 42. It uses the standard design option and design version 1. A shaft seal protects the bearings, and the unit is supplied without a holding brake, so an external device is needed to hold the load when power is removed. Safe Torque Off disconnects gate power from the inverter to prevent torque generation. The unit belongs to internal series revision 2.

The encoder uses **capacitive sensing**, which tolerates oil mist and vibration better than optical disks. The controller communicates through **Multi-Ethernet** and can join PROFINET, EtherNet/IP, or Sercos networks through the appropriate configuration. Its **Basic performance level** supports general-purpose point-to-point positioning

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rather than high-dynamic robotic motion. Mechanical output is delivered through a **plain shaft**, making the drive compatible with clamp couplings, pulleys, or gearboxes selected for the machine. The plain design allows a coupling hub to grip the shaft uniformly without relying on a keyway. Proper coupling alignment helps limit bearing loads when the drive is attached to the machine assembly.

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:**	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 8:11 AM

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