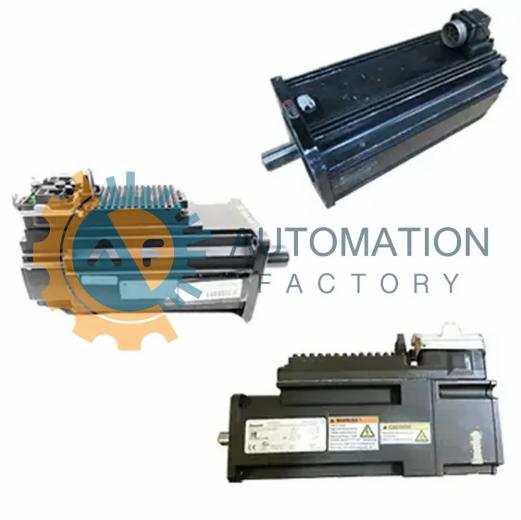
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-041C-42N-M1-HG2-ET-L3-D7-NN-FW



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The **KSM02.1B-041C-42N-M1-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. Combining a brushless servo motor and drive electronics in one enclosure, it enables decentralized axis control without separate cabinet inverters. The device suits packaging, conveyor, and assembly systems where space is limited and simplified wiring can reduce machine downtime.

Power, feedback, and network lines are merged into a single **hybrid connector**, reducing cable runs and connector count. Heat from the inverter is removed by **natural convection**, so no fan or liquid cooling circuit is needed. Rotor position is read through a **Hiperface** interface that delivers **128 signal periods** per revolution, while the optical multi-turn absolute encoder retains position information through power cycles. Multi-protocol operation is handled by the built-in **Multi-Ethernet** port, allowing selection of EtherNet/IP, PROFINET, EtherCAT, or Sercos III through system configuration. The unit uses the standard design option in Version 1 and has motor size 041 with winding code 42. It belongs to Basic performance level within Series 2, and its mechanical length is coded C.

The electrically released brake operates at **DC 24 V** and engages when power is removed, securing vertical or indexed loads while the drive is disabled. The power stage runs from a regulated bus of **DC 750 V**, matching the high-energy storage systems used on multi-axis machines. Functional safety is provided by **Safe Torque Off (STO)**, which removes gate signals from the output transistors without disconnecting the main supply. A shaft seal helps prevent dust or coolant from reaching the internal components. Motion is transmitted through a **plain shaft** that

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accepts clamp or compression couplings. The brake and electronics share a common housing, allowing thermal energy to pass directly into the aluminum frame for dissipation.

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:**	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 8:24 PM				

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