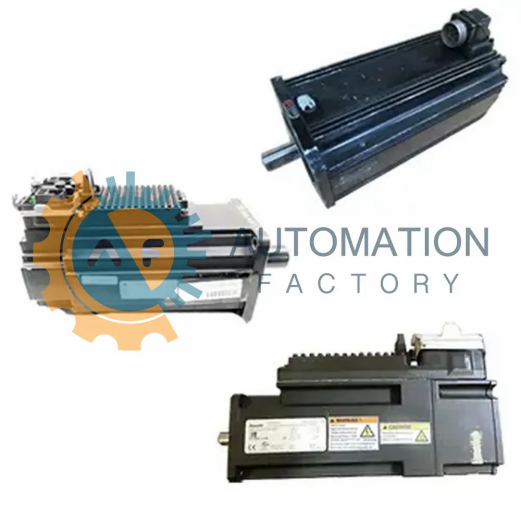
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-041C-42N-M1-HG2-ET-SD-D7-ES-FW



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The **KSM02.1B-041C-42N-M1-HG2-ET-SD-D7-ES-FW** is a motor-integrated servo drive manufactured by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. It combines a synchronous servomotor, drive electronics, and a fieldbus interface in one compact unit, allowing decentralized axis control without a separate panel-mounted inverter. In automated assembly lines or packaging machines, this configuration shortens cable runs and simplifies installation while delivering closed-loop motion control at the point of use.

Power is supplied from a shared DC bus rated at **750 V DC**, so the device can be linked directly to central supply modules in multi-axis systems. A single **hybrid connector** carries the DC link, signals, and brake power, reducing the number of separate plugs required on the machine. Heat is removed by **natural convection**, so no cooling fans are required. The drive has a **basic performance level**, providing standard current and velocity loops for general-purpose positioning. Position feedback uses a **Hiperface optical encoder** with 128 signal periods, providing absolute multi-turn position data for accurate homing and closed-loop control. Command and diagnostic traffic is routed through **Multi-Ethernet**, which supports EtherNet/IP, PROFINET, or EtherCAT communication. The unit has motor size 041, frame length C, winding code 42, Series 2, and design version 1.

The integrated holding brake is **electrically released** and engages automatically when power is removed. A dedicated 24 V DC line within the hybrid cable supplies power to the brake coil during operation. Functional safety is provided by **Safe Motion with SBC**, supporting controlled stopping and safe brake operation when connected to suitable safety equipment. Mechanical connection to the load is provided by a **plain shaft with a shaft seal**. The

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seal helps prevent coolant and dust from entering around the shaft, while the plain surface accommodates compatible clamping couplings. The brake can secure the connected load at standstill when the drive is no longer supplying motor torque.

Specifications

Connection Type:	Hybrid Connector	**Cooling Type:**	Natural convection	**Design Option:**	External master communication Multi-Ethernet
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 Motion (with SBC)	**Series:**	2	**Shaft Seal:**	Yes
Shaft Type:	Plain shaft	**Supply Voltage:**	DC 750 V	**Winding Code:**	42
Last Verified:	11/07/2026 11:01 AM				

Contact Us

1620 Old Apex Road, Cary, NC 27513, USA

Toll Free: 1-888-551-3082

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