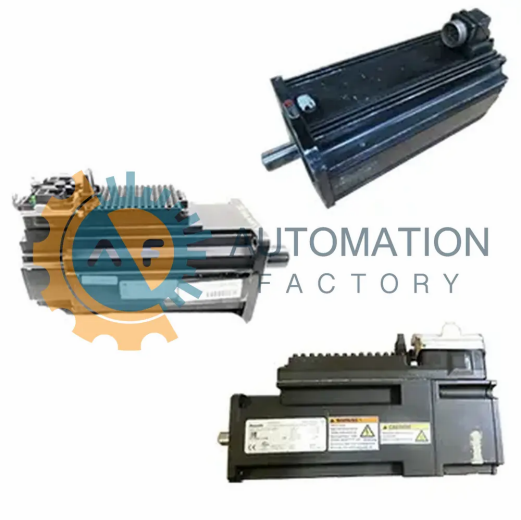
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-041C-42N-M1-HP2-ET-SD-D7-NN-FW



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The **KSM02.1B-041C-42N-M1-HP2-ET-SD-D7-NN-FW** is a motor-integrated servo drive manufactured by Bosch Rexroth Indramat within the KSM Motor Integrated Servo Drives series. By combining a synchronous motor, power electronics, and feedback circuitry in one enclosure, the unit decentralizes motion control, reduces cabinet occupancy, and simplifies installation on conveyors, packaging machines, and other automated axes. It performs positioning tasks at the machine level while exchanging power and data with the surrounding control system. This integrated arrangement also reduces the amount of separate equipment needed inside the main control cabinet.

The drive is supplied from a nominal **750 V DC** bus, eliminating the need for a separate mains rectifier at each axis. Power, feedback, and fieldbus conductors terminate on a single **hybrid connector**, which reduces wiring runs and connector count. Heat is removed solely by **natural convection**, so external fans are unnecessary when adequate ventilation is available. Position data come from a **Hiperface** optical encoder, and the motor has frame size **041** with length C. A keyed shaft transmits torque to the connected gearbox or pulley, while an integral seal limits the entry of oil and dust at the output. Winding code 42 matches the stator to the embedded inverter. The unit uses design version 1, a standard configuration, and a basic performance level.

For network integration, the unit supports **Multi-Ethernet**, allowing direct connection to EtherNet/IP, PROFINET, EtherCAT, or Sercos III networks without hardware changes. The encoder generates **128 signal periods** per revolution and stores multi-turn data, allowing the drive to retain absolute position information after power loss. An electrically released brake powered by **24 V DC** secures the shaft during shutdowns and emergency stops.

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Functional safety is implemented through **Safe Motion with SBC**, enabling onboard monitoring of speed and stop states. The device belongs to series 2 and exchanges real-time commands with compatible machine controllers. Its decentralized arrangement places motor control close to the driven axis, reducing long motor cable runs between the machine and the cabinet.

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 Motion (with SBC)	**Series:**	2	**Shaft Seal:**	Yes
Shaft Type:	Shaft with keyway	**Supply Voltage:**	DC 750 V	**Winding Code:**	42
Last Verified:	11/09/2026 10:20 PM				

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