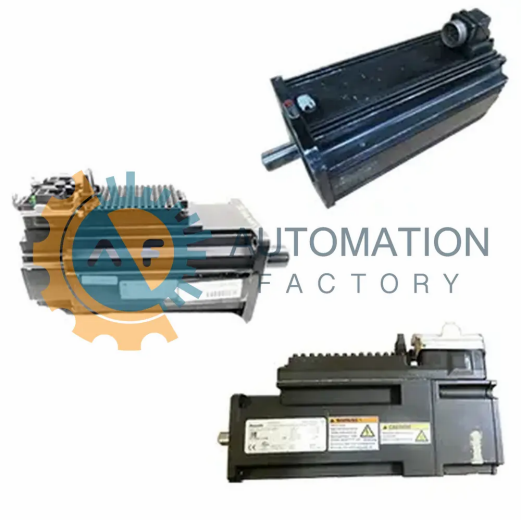
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-041C-42N-M1-HP2-ET-S3-D7-TO-FW



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The **KSM02.1B-041C-42N-M1-HP2-ET-S3-D7-TO-FW** is a motor-integrated servo drive from Bosch Rexroth Indramat and belongs to the KSM Motor Integrated Servo Drives series. It combines a controller, inverter, and permanent-magnet motor in one housing, creating a decentralized axis for industrial automation cells. The device supports conveyor segments, handling robots, and compact tooling stations that require precise velocity and position control while minimizing control-cabinet wiring.

Electrical power is supplied at **DC 750 V**, a common intermediate-circuit voltage that allows several drives to share one rectifier. I/O, power, and safety conductors pass through a single **hybrid connector**, simplifying installation and reducing the number of separate cable connections. Heat from the inverter is dissipated by **natural convection**, so an external fan is not required. Communication with the master controller uses **Multi-Ethernet**, enabling EtherNet/IP, EtherCAT, PROFINET, and SERCOS III communication without hardware changes. Servo feedback uses a **Hiperface** interface that reads an optical encoder with a resolution of **128 signal periods** and provides absolute multi-turn position data for startup without homing. The motor has size 041, length C, and winding code 42, while the drive is design version 1 and Series 2. Its basic performance level supports the torque ranges commonly required by auxiliary machine axes.

A spring-applied, **electrically released holding brake** powered by **DC 24 V** secures the shaft when bus voltage is lost or a vertical load must remain stationary. Integrated **Safe Motion without SBC** circuitry supervises safe torque off and related safety functions without requiring additional relays. A shaft seal protects the bearings from

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coolant and dust, while a keyway on the output shaft provides positive engagement with a compatible coupling. This shaft arrangement helps prevent rotational slip when torque is transferred to a gearbox, pulley, or other driven component.

Specifications

Connection Type:	Hybrid Connector	**Cooling Type:**	Natural convection	**Design Option:**	Multi-Ethernet output coupling
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 (without SBC)	**Series:**	2	**Shaft Seal:**	Yes
Shaft Type:	Shaft with keyway	**Supply Voltage:**	DC 750 V	**Winding Code:**	42
Last Verified:	11/09/2026 7:46 AM				

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