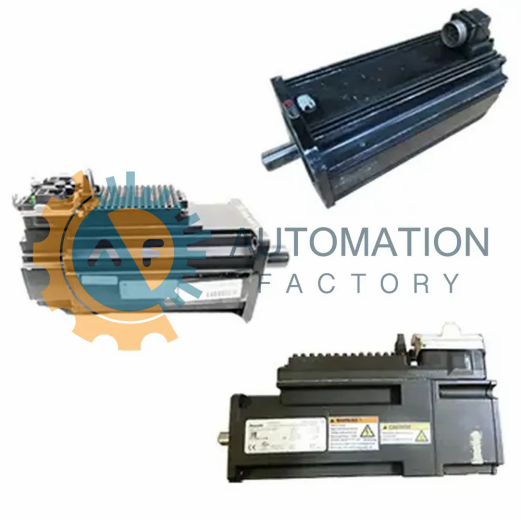
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-041C-42N-S1-HP2-ET-L3-D7-NN-FW



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The **KSM02.1B-041C-42N-S1-HP2-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 power electronics, feedback circuitry, and an AC servo motor in one IP-rated housing, the device reduces the need for separate drive cabinets and simplifies installation on modular machinery. It is intended for decentralized axis control in packaging, pick-and-place, and small material-handling equipment where compact footprints and straightforward setup are important.

Power for the axis is supplied at **DC 750 V**, allowing multiple drives to share a common bus and regenerative energy. Command, diagnostic, and safety data are exchanged over **Multi-Ethernet**, giving the unit protocol flexibility among EtherNet/IP, PROFINET, and EtherCAT without requiring hardware changes. Thermal energy leaves the housing through **natural convection**, so no fans or filters are required. Integrated safety includes **Safe Torque Off (STO)**, which cuts motor energy through redundant channels and removes the need for external safety relays. All power, signal, and brake conductors are routed through a single **hybrid connector**, reducing wiring time and minimizing potential connection errors during service.

The holding mechanism is an electrically released brake that engages when its coil is not energized. It unlocks when **DC 24 V** is applied, allowing controlled motion after the safety system releases the axis. Rotor position is monitored through a **Hiperface** optical encoder that produces **128 signal periods** per revolution and provides single-turn absolute feedback for accurate indexing. The mechanical interface uses frame size **041** and includes a keyed shaft with a shaft seal that helps protect against contamination. The C-length stator, winding code 42, basic performance

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level, and standard design version 1 suit applications that require moderate torque density with passive cooling.

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:**	Single-turn	**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:	Shaft with keyway	**Supply Voltage:**	DC 750 V	**Winding Code:**	42
Last Verified:	11/08/2026 4:23 PM				

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