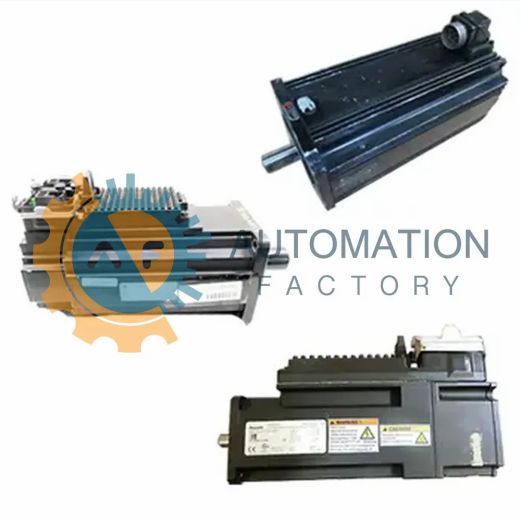
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-041C-42N-S1-HG2-ET-S3-D7-NN-FW



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The **KSM02.1B-041C-42N-S1-HG2-ET-S3-D7-NN-FW** is built by Bosch Rexroth Indramat and belongs to the KSM Motor Integrated Servo Drives series. It combines power electronics, a synchronous motor, and motion feedback in one enclosure, allowing axis control to be placed directly on the machine frame instead of in a control cabinet. Within an industrial automation cell, the unit positions tooling, conveyors, or pick-and-place arms with closed-loop speed and torque control, reducing cable length and electromagnetic interference in densely packed machinery.

The unit operates from **DC 750 V** and is compatible with the shared IndraDrive DC bus used in modular machines. A single **hybrid connector** routes power, encoder, and brake lines, while the integrated **Multi-Ethernet** port supports connections to EtherNet/IP, PROFINET, or EtherCAT networks without adapters. Heat is dissipated through **natural convection**, eliminating the need for fans when the housing is installed with adequate free-air clearance. Motor size **041**, motor length C, and winding code **42** establish the magnetic configuration selected for the basic performance level. The housing uses the standard design option, design version 1, and internal Series 2 configuration. The product is a motor-integrated servo drive with a plain shaft and a shaft seal that helps protect the motor against splashing liquids.

Position feedback is produced by an optical Hiperface encoder that provides 128 signal periods per revolution, supporting precise velocity and position control. Holding torque is maintained by an **electrically released brake** that engages when control power is removed and operates from **DC 24 V** during motion. Integrated safety uses **Safe Motion without SBC**, allowing safe-stop and limited-speed functions to be performed within the drive. The

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encoder supplies the controller with rotor position data immediately after startup, helping the axis maintain controlled movement without a separate external feedback assembly.

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 Motion (without SBC)	**Series:**	2	**Shaft Seal:**	Yes
Shaft Type:	Plain shaft	**Supply Voltage:**	DC 750 V	**Winding Code:**	42
Last Verified:	11/08/2026 4:48 PM				

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