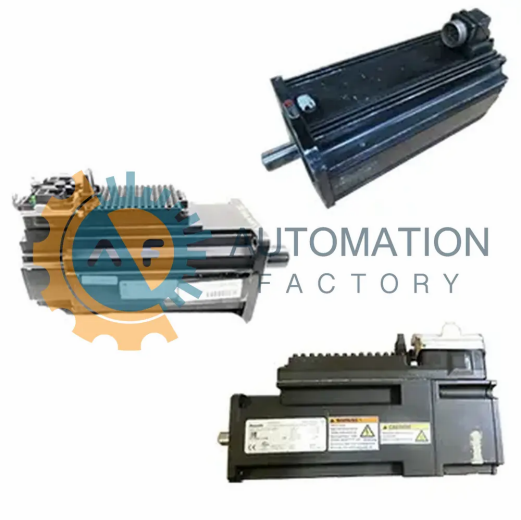
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-041C-42N-S1-HG0-ET-NN-D7-ES-FW



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The **KSM02.1B-041C-42N-S1-HG0-ET-NN-D7-ES-FW** is a motor-integrated servo drive built by Bosch Rexroth Indramat for decentralized motion control in the KSM Motor Integrated Servo Drives series 2. It combines a servomotor, power electronics, and a digital controller in one housing, removing the need for a separate cabinet-mounted drive. In packaging, assembly, and material-handling lines, the unit positions an axis directly on the machine frame. A shared DC bus connects it to the rest of the automation system and supports coordinated operation with other axes.

The drive uses a DC link rated at **750 V DC**, allowing multiple axes to draw power from a common supply and share regenerated energy. A **single hybrid connector** carries power, control signals, and fieldbus communication, reducing the number of separate cable runs. Heat is removed through **natural convection**, so operation does not require cooling fans. Rotor position data are transmitted through a **Hiperface interface** connected to an optical encoder with **128 signal periods** per revolution. The single-turn encoder provides an absolute position within one mechanical rotation. Because the actuator does not have a holding brake, stationary loads must be supported by drive-generated torque or an external mechanical device. The unit is design version 1 and has the Basic performance level.

Communication with the machine controller is handled by the **Multi-Ethernet option**, which supports several real-time Ethernet protocols through a configurable interface. Torque is transmitted through a **plain shaft with an integral shaft seal**, allowing the output flange to operate in lightly contaminated areas. Frame size **041** and motor

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length C establish the motor housing dimensions and available torque range. Winding code **42** identifies the winding configuration matched to the current capacity of the integrated inverter. The ES design option relies on communication with an external master for higher-level protective control.

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:**	Single-turn	**Holding Brake:**	Without holding brake
Master Communication Protocol:	Multi-Ethernet	**Motor Length:**	C	**Motor Size:**	041
Performance Level:	Basic	**Product Type:**	Motor-Integrated Servo Drive	**Safety Technology:**	Without safety technology
Series:	2	**Shaft Seal:**	Yes	**Shaft Type:**	Plain shaft
Supply Voltage:	DC 750 V	**Winding Code:**	42	**Last Verified:**	11/09/2026 8:49 AM

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