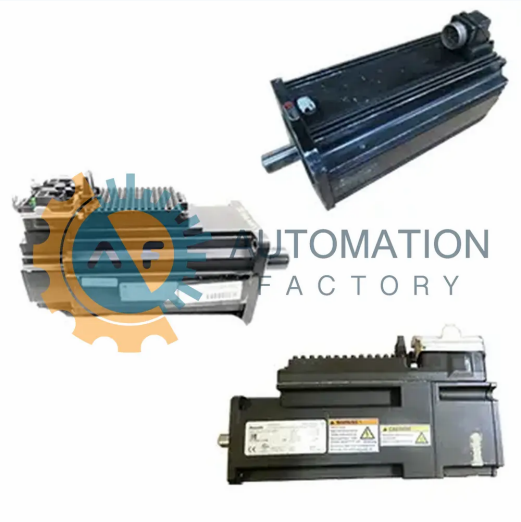
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-041C-42N-M1-HG0-ET-L3-D7-NN-FW



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The **KSM02.1B-041C-42N-M1-HG0-ET-L3-D7-NN-FW** is a motor-integrated servo drive produced by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. It combines a servomotor and power electronics in one housing, reducing the number of separate components required for a motion axis. The integrated arrangement simplifies cabling in automated assembly lines, packaging machines, and textile equipment. It also reduces the amount of control-panel space needed for motor drive equipment.

The unit connects to the shared DC bus through a **hybrid connector** that carries DC power, control signals, and safety signals through one plug. Cooling relies on **natural convection**, eliminating the need for forced-air components in clean or quiet operating areas. The power section accepts a bus voltage of **DC 750 V**, allowing power to be distributed among compatible decentralized drive units. The motor uses **winding code 42** for its electrical configuration and continuous torque characteristics. Feedback is transmitted through the **Hiperface** interface, which carries position information and motor data to the integrated controller. The unit has a standard design, design version 1, and a basic performance level. Its motor size is 041, and its frame length is C.

The drive uses **Multi-Ethernet** communication, allowing connection to EtherNet/IP, PROFINET, or EtherCAT networks without changing option cards. Functional safety is provided by **Safe Torque Off (STO)**, which disables torque-producing motor power without cycling the main contactor. The optical encoder provides **128 signal periods** per revolution for position and speed feedback. Its **multi-turn absolute tracking** retains the axis position across multiple shaft revolutions after power is removed. A plain shaft transfers torque directly to the connected

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machine, while a shaft seal helps limit lubricant leakage and the entry of dust. The drive does not include a holding brake, so an external mechanical device must retain static loads when motor torque is unavailable. The internal series index is 2, indicating the second generation of the unit's electronics.

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:**	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:**	Safe Torque Off (STO)
Series:	2	**Shaft Seal:**	Yes	**Shaft Type:**	Plain shaft
Supply Voltage:	DC 750 V	**Winding Code:**	42	**Last Verified:**	11/08/2026 7:22 AM

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