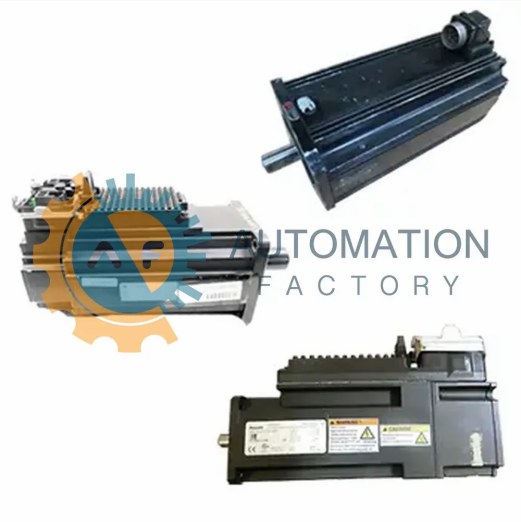
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-041C-42N-S1-HP0-ET-L3-D7-TO-FW



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The **KSM02.1B-041C-42N-S1-HP0-ET-L3-D7-TO-FW** is a motor-integrated servo drive produced by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. By combining a servomotor, power stage, and control electronics in one housing, it streamlines decentralized motion axes on automated assembly lines, conveyors, and packaging machines. The integrated design eliminates the need for a cabinet-mounted inverter and uses distributed DC bus power to execute position and speed commands close to the load.

Power enters the device through a **hybrid connector** that carries both the DC supply and field I/O, minimizing cabling. The drive section operates from a **750 V DC link**, so it can connect directly to a high-energy common bus without an internal rectifier. Heat is removed by **natural convection**, and the absence of cooling fans reduces maintenance in particulate environments. Network traffic and real-time control reach the integrated controller through a **Multi-Ethernet interface** that supports EtherNet/IP, PROFINET, EtherCAT, and Sercos III. Dedicated terminals accept commands for **Safe Torque Off (STO)**. This function disables the gate drive so the motor cannot generate torque while the machine is in a safe state.

Rotor feedback is provided by a **Hiperface optical encoder** with **128 signal periods** per revolution, enabling single-turn absolute position reporting to the drive. The mechanical envelope follows motor size **041** with length code C, providing a compact stack that accommodates the continuous current associated with winding code 42. Output torque is transferred through a **shaft with a keyway**. A shaft seal limits contaminant ingress around the bearing, while the absence of a holding brake reduces rotational inertia. The unit is design version 1 and series 2,

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with a Basic performance level. Its multi-Ethernet output coupling supports communication with several common industrial networks without requiring separate network interfaces.

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:**	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:**	Safe Torque Off (STO)
Series:	2	**Shaft Seal:**	Yes	**Shaft Type:**	Shaft with keyway
Supply Voltage:	DC 750 V	**Winding Code:**	42	**Last Verified:**	11/09/2026 12:39 PM

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