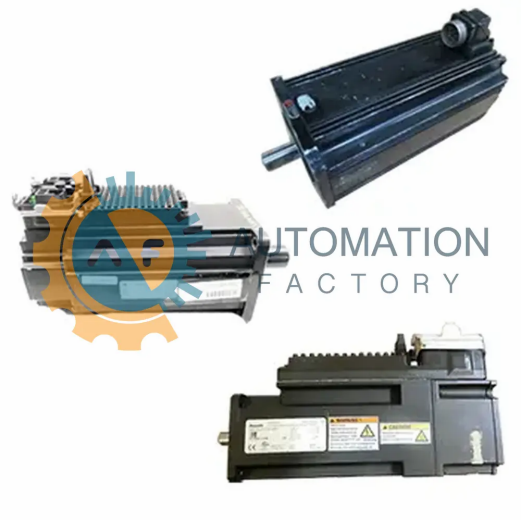
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

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



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The **KSM02.1B-041C-42N-S1-HG2-ET-S3-D7-TO-FW** is manufactured by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. It combines a brushless servomotor, inverter stage, and fieldbus interface in one enclosure, allowing the axis to be mounted close to the load without occupying a control cabinet slot. As a motor-integrated servo drive, it provides closed-loop positioning for pick-and-place robots, feeders, and indexing tables while shortening cable runs in distributed machine layouts.

Electrical power enters through a single **hybrid connector** that carries the DC-link and signal conductors. The drive accepts a bus voltage of **750 V DC**, allowing it to share energy with other axes on the same power rail. Heat produced by the inverter is removed through **natural convection**, eliminating the need for fans or liquid cooling circuits. Rotor position is returned over a **Hiperface interface**, and its optical sensor generates **128 signal periods** per revolution for accurate closed-loop control. The C-length stator and basic performance level support rapid responses to changing loads while maintaining a compact motor profile. Winding code 42 identifies the electrical configuration used by the integrated drive and motor.

The holding mechanism is an **electrically released brake** energized at 24 V DC, so the shaft remains locked whenever control power is removed. Communication with the master controller is handled by the **Multi-Ethernet stack**, which supports EtherNet/IP, PROFINET, and EtherCAT through the integrated communication interface. Mechanical power is transmitted through a **plain shaft**, and a shaft seal protects the bearing set from coolant and dust. Integrated **Safe Motion functions** monitor speed and stopping sequences to performance level d without a

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Safety Brake Control module. The unit uses single-turn feedback and has motor size 041. It is design version 1 and series 2.

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:**	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
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