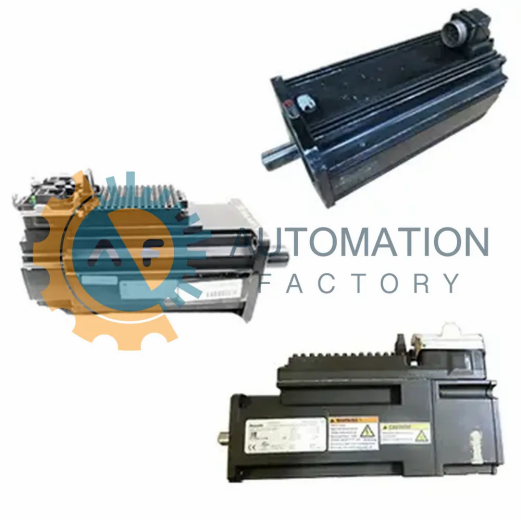
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-041C-42N-M1-HP2-ET-L3-D7-NN-FW



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The **KSM02.1B-041C-42N-M1-HP2-ET-L3-D7-NN-FW** is a motor-integrated servo drive manufactured by Bosch Rexroth Indramat for the KSM Motor Integrated Servo Drives series. It combines a synchronous motor, power electronics, and an axis controller in one enclosure, allowing it to be mounted directly on the machine frame instead of inside a control cabinet. This arrangement supports decentralized automation in which each axis performs its own torque, speed, and position control while sharing a common DC bus and communication network. Integrating the drive and motor also reduces the amount of wiring routed between the machine and the control cabinet.

The drive is supplied from a **DC 750 V** bus, allowing connection to IndraDrive power supplies without additional converters. Command traffic and diagnostic data are handled by a **Multi-Ethernet** interface that supports several real-time fieldbus protocols. Rotor position is read through a **Hiperface** optical encoder that delivers **128 signal periods** per revolution and provides multi-turn absolute position data for starts without a homing cycle. Heat is removed through **natural convection**, so no fans or liquid-cooling circuits are required. Power, brake, control-voltage, and Ethernet connections terminate on a single **hybrid connector**, reducing cable bulk around the machine frame.

The motor has size 041, length code C, and winding code 42, providing the torque and speed characteristics associated with this Series 2 unit. An electrically released holding brake powered by **DC 24 V** secures the load whenever control power is removed. Functional safety is provided by **Safe Torque Off (STO)**, which disables inverter gating while leaving the control logic energized for a fast restart. Output torque passes through a **shaft**

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with a keyway, providing positive engagement with a compatible coupling or driven component. A factory-installed shaft seal helps prevent dirt from entering the housing and limits oil migration near the output interface. The device is supplied in the standard design, uses design version 1, and has a basic performance level for general-purpose positioning tasks.

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:**	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 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 11:05 PM				

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