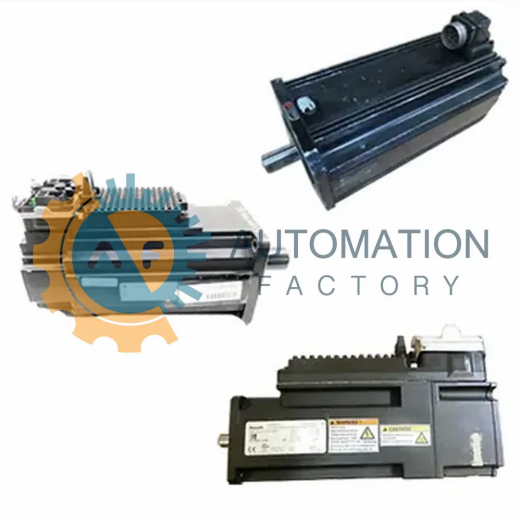
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-041C-42N-M3-HG0-ET-L3-D7-TO-FW



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The **KSM02.1B-041C-42N-M3-HG0-ET-L3-D7-TO-FW** is a motor-integrated servo drive from Bosch Rexroth Indramat in the KSM Motor Integrated Servo Drives series. It combines a synchronous servo motor, inverter electronics, and control functions in one housing for decentralized motion applications. The unit uses the internal Series 2 platform and carries design version 1. Its size 041 stator has C-length laminations and winding code 42, providing a compact motor arrangement for packaging equipment, handling systems, and other automated machinery. The drive has a Basic performance level and transmits torque through a plain shaft that can be connected to a suitable coupling, belt wheel, or planetary gearhead.

Electrical power is supplied from a shared DC bus at **DC 750 V**, allowing compatible axes to use a common power source. Waste heat is dissipated by **natural convection**, eliminating the need for fans or liquid-cooling circuits. A single **Hybrid Connector** carries the DC supply, control I/O, and feedback signals, reducing the number of separate cable connections. Rotor position data are transmitted through a **Hiperface** interface connected to a **capacitive sensing wheel**. The encoder produces **16 signal periods per revolution**, while its multi-turn absolute function retains the cumulative turn count when power is removed. Multi-Ethernet provides the output coupling and serves as the primary communication protocol for exchanging control data with the automation system.

Integrated **Safe Torque Off (STO)** disables gate firing in the power stage while allowing fieldbus communication to remain active. This function prevents the drive from generating motor torque when the safety circuit is activated. The unit is supplied **without a holding brake**, so an external device or another suitable method must retain static

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loads when motor torque is unavailable. A **shaft seal** helps prevent dust and fluid from entering around the plain output shaft. Because the power electronics share the motor housing, the required motor wiring remains short and the axis can be installed without a separate cabinet-mounted servo drive. The integrated arrangement also reduces long power-cable runs between the inverter and motor in compact machine layouts.

Specifications

Connection Type:	Hybrid Connector	**Cooling Type:**	Natural convection	**Design Option:**	Multi-Ethernet output coupling
Design Version:	1	**Encoder Interface:**	Hiperface	**Encoder Resolution:**	16 signal periods
Encoder Technology:	Capacitive	**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:**	11/07/2026 5:49 PM

Contact Us

1620 Old Apex Road, Cary, NC 27513, USA

Toll Free: 1-888-551-3082

International: 1-919-443-0207

Fax: 1-919-867-6204

Email: sales@wakeindustrial.com

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