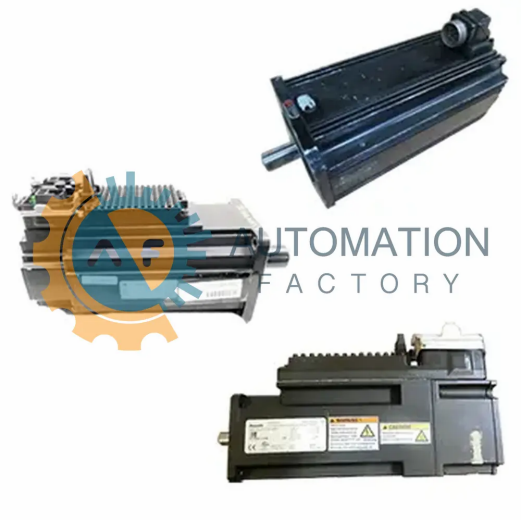
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM02.1B-061C-35N-M1-HG2-ET-NN-D7-NN-FW



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The **KSM02.1B-061C-35N-M1-HG2-ET-NN-D7-NN-FW** is a motor-integrated servo drive manufactured by Bosch Rexroth Indramat and supplied under the KSM Motor Integrated Servo Drives series. Its design combines a synchronous motor and power electronics in one enclosure, allowing axis control hardware to be mounted directly on the machine frame. The device is intended for decentralized motion zones that require precise speed and torque regulation where control panel space is limited. Integrating the drive with the motor also shortens the connections between the power electronics and motor windings.

This model operates from a supply bus of **DC 750 V** and transfers power and I/O through a single **hybrid connector**, reducing the amount of cabling routed to the unit. Thermal energy is removed by **natural convection**, eliminating the need for fans or liquid cooling equipment. Position feedback is transmitted through a **Hiperface interface** connected to an optical encoder that delivers **128 signal periods** per revolution. The multi-turn absolute encoder format retains revolution data while the drive is de-energized, allowing position information to remain available after power is restored. For static load holding, the shaft is restrained by an **electrically released brake** that engages automatically when power is lost. The unit uses the Standard design option and Design version 1, while winding code 35 identifies the stator configuration.

The brake coil requires **DC 24 V**, which can be supplied by the machine's low-voltage utility bus. Real-time command and diagnostic traffic runs over **Multi-Ethernet**, allowing the unit to connect to EtherNet/IP, PROFINET, or EtherCAT networks without a different communication module. A **plain shaft** supports direct coupling to gear

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stages, and the installed shaft seal helps protect the bearings from dust and splashing liquids. Size 061 and motor length C establish the housing dimensions needed for machine integration. The Basic performance level does not include internal safety technology, so any required safety functions must be provided by external equipment. The product is part of Series 2 within the KSM platform.

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:	061	**Performance Level:**	Basic	**Product Type:**	Motor-Integrated Servo Drive
Safety Technology:	Without safety technology	**Series:**	2	**Shaft Seal:**	Yes
Shaft Type:	Plain shaft	**Supply Voltage:**	DC 750 V	**Winding Code:**	35
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