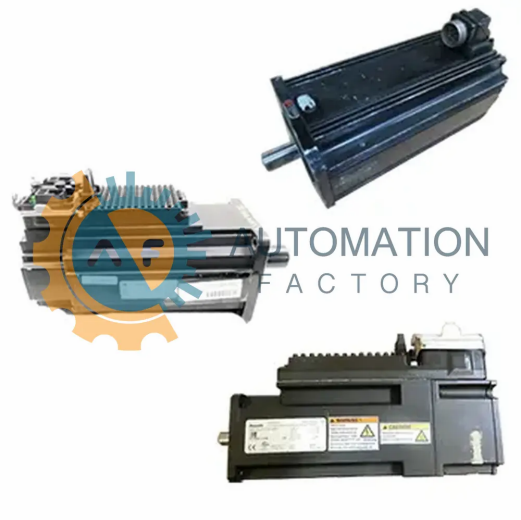
Bosch Rexroth Indramat — KSM Motor Integrated Servo Drives

KSM01.2B-071C-35N-S1-HG2-SE-NN-D7-NN-FW



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Bosch Rexroth Indramat manufactures the **KSM01.2B-071C-35N-S1-HG2-SE-NN-D7-NN-FW** as part of the KSM Motor Integrated Servo Drives series. This unit combines a permanent-magnet servo motor, power electronics, and a fieldbus interface in a single housing to simplify installation in distributed automation systems. The integrated design is intended for moderate-torque axis applications that benefit from minimal cabinet wiring. It is suitable for machines where decentralized motion modules shorten cable runs and reduce the amount of heat generated inside the control cabinet.

The drive is powered from a shared DC bus at **750 V DC**, so only the high-voltage pair and protective earth conductor feed the axis. Power, logic, and safety lines are combined in a single **hybrid connector**, which reduces the number of connections required on the machine frame. Heat is removed through **natural convection**; therefore, no fans are fitted, and the mounting orientation must permit unrestricted airflow. Motion commands and diagnostic data travel over **SERCOS 2 (RS422)**, providing synchronous position updates to the controller without additional gateway hardware. The integrated feedback receiver accepts a **Hiperface encoder signal**, enabling absolute position initialization at startup. The unit has design version 2, a standard mechanical option, and a Basic performance level.

The motor has a plain shaft with a shaft seal, allowing installation in areas exposed to light splashing. An electrically released brake rated at **24 V DC** secures the axis when power is removed. The optical single-turn encoder inside the motor generates **128 signal periods** per revolution, which the drive converts into high-resolution position data

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for closed-loop motion control. Frame code **071** indicates the motor size, while length code C identifies the axial housing length. Winding code **35** identifies the electrical winding configuration used for the required torque and speed range. The product is part of Series 1, and its sealed shaft arrangement helps protect the motor bearings and internal components from external contaminants.

Specifications

Connection Type:	Hybrid Connector	**Cooling Type:**	Natural convection	**Design Option:**	Standard
Design Version:	2	**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:**	SERCOS 2 (RS422)	**Motor Length:**	C
Motor Size:	071	**Performance Level:**	Basic	**Product Type:**	Motor-Integrated Servo Drive
Safety Technology:	Without safety technology	**Series:**	1	**Shaft Seal:**	Yes
Shaft Type:	Plain shaft	**Supply Voltage:**	DC 750 V	**Winding Code:**	35
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