1FK7042-5AK71-1UG3-Z

Industrial automation components

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Manufacturer	Siemens
Catalog number	1fk7042-5ak71-1ug3-z
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Torque	3.0 Nm
Maximum Speed	6000 RPM
Power Rating	1.02 kW
Mounting Type	IM B5
Cooling	Natural air cooling

Description

The Siemens 1FK7042-5AK71-1UG3-Z is a compact synchronous servo motor from Siemens' 1FK7 series, designed for precise motion control in industrial automation applications. This motor delivers a torque of 3.0 Nm and operates at a maximum speed of 6000 RPM, making it suitable for tasks requiring high-speed and high-precision performance.

With a power rating of 1.02 kW, it efficiently handles demanding workloads. The motor employs natural air cooling, ensuring optimal performance without the need for additional cooling systems. It features an IM B5 flange-mounted construction, with alternative mounting positions available through IM V1 and IM V3 configurations, providing flexibility in installation.

The power and signal connectors are rotatable by 270°, facilitating flexible cable management and reducing installation complexity. The motor is equipped with a multi-pole resolver (P=4) for enhanced positional accuracy and operates without a holding brake.

Its protection class is IP64, allowing reliable operation in environments exposed to dust and moisture. The motor's shaft is a plain type with a normal tolerance level (N), ensuring compatibility with various mechanical systems.

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This model is part of Siemens' 1FK7 series, known for its compact design and high-performance capabilities in industrial automation applications.

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