1FK7042-5AK71-1UH3-Z

Industrial automation components

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Manufacturer	Siemens
Catalog number	1fk7042-5ak71-1uh3-z
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Motor Type	Synchronous
Servo Type	Three-phase servomotor
Series	1FK7
Rated Speed	6000 rpm
Continuous Torque	3.0 Nm
Peak Torque	9.0 Nm
Encoder System	Absolute encoder with 2048 pulses/rev
Construction Standard	IM B5
Holding Brake	With holding brake
Degree of Protection	IP64
Paint Finish	RAL7016 (anthracite)

Description

The Siemens 1FK7042-5AK71-1UH3-Z is a compact synchronous servo motor from the 1FK7 series, designed for precise motion control in industrial automation applications. Operating at a rated speed of 6000 rpm, it delivers a continuous torque of 3.0 Nm and a peak torque of 9.0 Nm, making it suitable for tasks requiring high precision and dynamic response.

The motor is naturally cooled and features a non-ventilated design, ensuring reliable performance in various environments. It is equipped with an absolute encoder system with 2048 pulses per revolution, providing accurate position feedback.

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The motor's construction adheres to the IM B5 standard, allowing for flexible mounting options. Additionally, it includes a holding brake for enhanced safety during operation. With a degree of protection rated at IP64 and a paint finish in RAL7016 (anthracite), the motor is built to withstand challenging industrial conditions.

This model is part of Siemens' SIMOTICS S-1FK7 series, known for their compact design and high-performance capabilities.