1FT6064-6AK72-4AD0-Z

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft6064-6ak72-4ad0-z
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Continuous Torque	9.5 Nm
Rated Speed	6000 rpm
Cooling Method	Natural Air Cooling
Flange Type	IM B14 (IM V18, IM V19)
Encoder Type	Incremental Encoder
Encoder Signal	1 Vpp Sinusoidal
Encoder Resolution	2048 pulses per revolution
Shaft Design	Feather Key with Circular Runout Tolerance R
Sealing Ring	Labyrinth Seal (IP64)

Description

The Siemens 1FT6064-6AK72-4AD0-Z is a high-performance synchronous servomotor from the SIMOTICS S series, designed for precision motion control applications. This motor delivers a continuous torque of 9.5 Nm and operates at a rated speed of 6000 rpm, ensuring efficient and reliable performance in demanding industrial environments.

It features natural air cooling, eliminating the need for additional cooling systems and simplifying installation and maintenance. The motor is constructed with an IM B14 flange (IM V18, IM V19), suitable for various mounting configurations.

It is equipped with an incremental encoder that provides a 1 Vpp sinusoidal signal with 2048 pulses per revolution, facilitating precise position feedback. The shaft end is designed with a feather key and has a circular runout tolerance of R, ensuring smooth operation and minimal vibration.

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Notably, this model does not include a holding brake, reducing mechanical complexity and potential points of failure. The motor's vibration severity grade is N, indicating low vibration levels for enhanced operational stability.

Additionally, it is sealed with a labyrinth seal rated at IP64, offering protection against dust and water ingress, thereby extending the motor's service life in harsh conditions.