1FT6044-4AF71-4AK2

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft6044-4af71-4ak2
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Siemens
Part Number	1FT6044-4AF71-4AK2
Product Type	Synchronous Servomotor
Rated Torque	5.0 Nm
Maximum Speed	3000 RPM
Cooling Method	Natural Air Cooling
Mounting Configuration	IM B5
Connector Orientation	Axial, Drive End
Encoder Type	Absolute Encoder (EnDat) with 2048 Pulses per Revolution
Shaft Design	Smooth Shaft with Circular Runout Tolerance N
Shaft Seal	Radial Shaft Seal (IP67 Protection)
Rated Current	2.9 A

Description

The Siemens 1FT6044-4AF71-4AK2 is a high-performance synchronous servomotor from the SIMOTICS S series, designed for precise motion control in industrial automation applications. This motor delivers a rated torque of 5.0 Nm and operates at a maximum speed of 3000 RPM, making it suitable for tasks requiring consistent and reliable performance.

It features natural air cooling, ensuring efficient thermal management during operation. The motor is configured with an IM B5 mounting, compatible with IM V1 and IM V3 orientations, and includes an

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axial connector outlet at the drive end for streamlined integration.

Equipped with an absolute encoder (EnDat) with 2048 pulses per revolution, it offers high-resolution feedback for accurate positioning. The smooth shaft design meets circular runout tolerance N, and the motor is rated for vibration severity grade N, indicating low operational vibration.

Additionally, it has a radial shaft seal providing IP67 protection, ensuring durability in damp environments. With a rated current of 2.9 A and an optimal power output of 1.35 kW at 3000 RPM, the 1FT6044-4AF71-4AK2 motor is a reliable choice for synchronous control requirements.