1FT6044-4AF71-4TB0

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft6044-4af71-4tb0
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Siemens
Part Number	1FT6044-4AF71-4TB0
Motor Type	Synchronous AC Servo Motor
Rated Torque	5.0 Nm
Rated Speed	3000 rpm
Cooling Method	Natural Air Cooling (IM B5)
Encoder System	14-bit Resolver
Shaft End	Plain Shaft with Radial Eccentricity Tolerance N
Degree of Protection	IP65

Description

The Siemens 1FT6044-4AF71-4TB0 is a high-performance synchronous AC servo motor from the SIMOTICS S series, designed for precision motion control applications. This motor features a rated torque of 5.0 Nm and operates at a rated speed of 3000 rpm, making it suitable for demanding industrial tasks requiring consistent and reliable performance.

It utilizes natural air cooling (IM B5) to maintain optimal operating temperatures, ensuring longevity and efficiency. The motor is equipped with a 14-bit resolver encoder system, providing precise feedback for accurate positioning and speed control.

Its construction includes a plain shaft with radial eccentricity tolerance N, without a holding brake, and it has a vibration severity grade of N, indicating low vibration levels during operation. The degree of protection is IP65, offering robust resistance against dust and water ingress, which is

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essential for maintaining performance in various industrial environments.

This motor is ideal for applications in automation systems, robotics, and other machinery where precise motion control is critical.

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