1FT6044-1AF71-4FG1

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft6044-1af71-4fg1
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Motor Type	Synchronous AC Servo Motor
Rated Torque	5.0 Nm
Rated Speed	3000 rpm
Cooling Method	Natural Air Cooling
Encoder System	Absolute Encoder, 22-bit single-turn + 12-bit multi-turn
Enclosure Rating	IP65
Mounting Type	IM B5 (IM V1, IM V3)

Description

The Siemens 1FT6044-1AF71-4FG1 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, a rated speed of 3000 rpm, and operates with natural air cooling, ensuring efficient thermal management.

It is equipped with an absolute encoder system providing 22-bit single-turn and 12-bit multi-turn resolution, facilitating precise position feedback. The motor is constructed with an IP65-rated enclosure, offering protection against dust and water ingress, and is designed for IM B5 (IM V1, IM V3) mounting, suitable for various industrial setups.

Its axial drive end connector outlet direction simplifies integration into existing systems. This motor is ideal for applications requiring high torque density and dynamic response, such as robotics, CNC machinery, and automated production lines.

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