1FT6041-4AF71-4EH2

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft6041-4af71-4eh2
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Motor Type	Synchronous Servomotor
Nominal Torque	2.5 Nm
Rated Speed	3000 rpm
Cooling Method	Natural Air Cooling
Mounting Flange	IM B5 (IM V1, IM V3)

Description

The Siemens 1FT6041-4AF71-4EH2 is a SIMOTICS S synchronous servomotor from the 1FT6 series, designed for precise motion control applications. This motor delivers a nominal torque of 2.5 Nm at a rated speed of 3000 rpm, making it suitable for high-performance tasks requiring consistent and reliable operation.

It features natural air cooling, ensuring efficient thermal management without the need for additional cooling systems. The motor is constructed with an IM B5 (IM V1, IM V3) mounting flange, facilitating easy integration into various industrial setups.

For power and signal connections, the motor is equipped with an axial connector outlet direction at the drive end, streamlining wiring and reducing installation complexity. An absolute encoder with 2048 pulses per revolution (encoder A-2048) provides precise position feedback, enhancing the motor's performance in applications where accuracy is critical.

The smooth shaft design with a circular runout tolerance of N ensures minimal vibration and noise during operation. Additionally, the motor includes a holding brake, offering secure positioning when the motor is not in use.

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With a vibration severity grade of N and a radial shaft seal rated at IP67, the motor is built to withstand harsh industrial environments, providing durability and longevity. This motor is ideal for applications in automation systems, robotics, and other precision machinery where high torque and reliability are essential.

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