1FT6041-4AF71-3EB0

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft6041-4af71-3eb0
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Siemens
Part Number	1FT6041-4AF71-3EB0
Product Type	Synchronous Servo Motor
Continuous Torque	2.5 Nm
Rated Speed	3000 rpm
Cooling Method	Natural Air Cooling
Mounting Flange	IM B5
Encoder Type	Incremental Encoder
Encoder Resolution	2048 pulses/rev
Shaft End	Feather Key
Seal Type	Labyrinth Seal

Description

The Siemens 1FT6041-4AF71-3EB0 is a synchronous servo motor from the SIMOTICS S series, designed for precise motion control applications. This model delivers a continuous torque of 2.5 Nm and operates at a rated speed of 3000 rpm, making it suitable for tasks requiring high precision and reliability.

The motor features natural air cooling, ensuring efficient thermal management during operation. It is constructed with an IM B5 mounting flange, compatible with both IM V1 and IM V3 standards, facilitating versatile installation options.

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The power and signal connectors are positioned at the axial non-drive end (NDE), streamlining wiring and integration processes. Equipped with an incremental encoder that provides 2048 sine/cosine pulses per revolution, the motor ensures accurate position feedback.

Additionally, it includes a feather key and maintains a circular runout tolerance of N, contributing to its mechanical precision. The motor is designed without a holding brake, reducing maintenance needs and enhancing performance.

It has a vibration severity grade of N, indicating low vibration levels during operation, and is sealed with a labyrinth seal rated at IP64, offering protection against dust and water ingress. This motor is ideal for applications in industrial automation where precise and reliable motion control is essential.