1FT6044-4AF71-4EH1-Z

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft6044-4af71-4eh1-z
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Siemens
Part Number	1FT6044-4AF71-4EH1-Z
Product Type	Synchronous Servomotor
Series	SIMOTICS S
Rated Torque	5.0 Nm
Rated Speed	3000 rpm
Cooling Method	Natural Air Cooling
Encoder Type	Absolute Encoder (EnDat 2048 p/r)
Mounting Standard	IM B5 (IM V1, IM V3)
Enclosure Rating	IP65
Holding Brake	With Holding Brake

Description

The Siemens 1FT6044-4AF71-4EH1-Z is a high-performance synchronous servomotor 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, providing reliable and efficient performance.

It utilizes natural air cooling, eliminating the need for external cooling systems and simplifying installation. The motor is equipped with an absolute encoder (EnDat 2048 p/r), ensuring precise position feedback and high-resolution control.

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Its construction adheres to the IM B5 (IM V1, IM V3) mounting standard, facilitating versatile integration into various mechanical setups. The motor's enclosure is rated IP65, offering protection against dust and water ingress, making it suitable for demanding industrial environments.

Additionally, the motor includes a holding brake, enhancing safety and stability during operation. With a vibration severity grade of N and a gamma sealing ring, the motor ensures smooth and reliable operation under various conditions.

This servomotor is ideal for applications requiring high precision and durability, such as robotics, CNC machinery, and automated production lines.