1FT6082-8AF71-4AH6

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft6082-8af71-4ah6
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Siemens
Part Number	1FT6082-8AF71-4AH6
Product Type	Synchronous Servomotor
Nominal Torque	13 Nm
Nominal Speed	3000 rpm
Cooling Type	Naturally Cooled
Connector Outlet Direction	Axial (Non-Drive End)
Encoder Type	Incremental Encoder
Encoder Signal	Sin/Cos 1 Vpp
Encoder Resolution	2048 pulses per revolution
Holding Brake	Included
Seal Type	Labyrinth Seal (IP64)

Description

The Siemens 1FT6082-8AF71-4AH6 is a synchronous servomotor from the SIMOTICS S series, designed for precise motion control in industrial automation applications. This model features a nominal torque of 13 Nm and operates at a speed of 3000 rpm, providing reliable performance for demanding tasks.

It is naturally cooled and comes with an axial connector outlet direction on the non-drive end, facilitating easy integration into various systems. The motor is equipped with an incremental encoder that offers a sin/cos 1 Vpp signal with 2048 pulses per revolution, ensuring accurate position

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feedback.

Additionally, it includes a holding brake for enhanced safety and a labyrinth seal (IP64) to protect against dust and water ingress, making it suitable for harsh industrial environments. The motor's design also incorporates a smooth shaft with a circular runout tolerance of N, ensuring precise mechanical operation.

These features make the Siemens 1FT6082-8AF71-4AH6 an excellent choice for applications requiring high precision and durability.

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