1FT6082-8AF71-1TH1

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft6082-8af71-1th1
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Siemens
Part Number	1FT6082-8AF71-1TH1
Continuous Torque	13 Nm
Rated Speed	3000 rpm
Encoder Type	Incremental Encoder
Encoder Resolution	2048 pulses per revolution
Shaft Design	Smooth Shaft with Circular Runout Tolerance N
Sealing Ring	Gamma Sealing Ring (IP65)

Description

The Siemens 1FT6082-8AF71-1TH1 is a high-performance synchronous servomotor from the SIMOTICS S series, designed for precise motion control in industrial automation applications. This model features a continuous torque of 13 Nm and operates at a rated speed of 3000 rpm, making it suitable for tasks requiring consistent and reliable performance.

The motor is naturally cooled, ensuring efficient heat dissipation during operation. It is equipped with an incremental encoder with a sin/cos 1 Vpp signal and a resolution of 2048 pulses per revolution, providing accurate position feedback.

The motor's design includes a smooth shaft with a circular runout tolerance of N, and it is rated for vibration severity grade N, indicating suitability for standard industrial environments. The gamma sealing ring offers protection against dust and water ingress, achieving an IP65 rating.

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This servomotor is ideal for applications in robotics, CNC machinery, and other systems where precise motion control is essential.

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