1FT6084-8AF71-3TH0

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft6084-8af71-3th0
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Continuous Torque	20 Nm
Maximum Speed	3000 rpm
Cooling Type	Natural Air Cooling
Encoder Type	Incremental Encoder (sin/cos 1 Vss)
Mounting Configuration	IM B5 (IM V1, IM V3)

Description

The Siemens Servomotor 1FT6084-8AF71-3TH0 is a high-performance synchronous servo motor from the SIMOTICS S series, designed for precision motion control applications. This model delivers a continuous torque of 20 Nm at 100 K, with a maximum speed of 3000 rpm, ensuring reliable and efficient operation in demanding environments.

The motor features natural air cooling, eliminating the need for external cooling systems and simplifying installation and maintenance. It is equipped with an incremental encoder (sin/cos 1 Vss) with 2048 S/R resolution, providing precise position feedback for accurate control.

The motor's construction 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 applications. The labyrinth seal (IP64) offers protection against dust and water ingress, enhancing durability and longevity.

The motor is designed for power and signal connectors with an axial NDE outlet direction, facilitating straightforward integration into existing systems. Its mounting configuration is IM B5 (IM V1, IM V3), compatible with various industrial setups.

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

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