1FT6082-8AK71-2DK4

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft6082-8ak71-2dk4
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Motor Type	Synchronous AC Servo Motor
Continuous Torque	13 Nm Newton meters
Rated Speed	6000 rpm revolutions per minute
Mounting Flange	IM B5
Encoder System	Incremental Encoder, 2048 sin/cos signals per revolution
Shaft Design	Smooth shaft with circular runout tolerance N
Holding Brake	Yes
Degree of Protection	IP67
Interface	DRIVE-CLiQ

Description

The Siemens 1FT6082-8AK71-2DK4 is a high-performance synchronous servomotor designed for precision motion control applications. Part of Siemens' SIMOTICS S series, this motor delivers a continuous torque of 13 Nm and operates at a rated speed of 6000 rpm, ensuring efficient and reliable performance in demanding industrial environments.

It features natural cooling and is constructed with an IM B5 mounting flange, suitable for various installation configurations. The motor is equipped with an incremental encoder system providing 2048 sin/cos signals per revolution, facilitating precise position feedback.

Its robust design includes a smooth shaft with a circular runout tolerance of N, a holding brake for secure operation, and a vibration severity grade of N, indicating suitability for standard industrial applications.

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The motor's degree of protection is IP67, offering resistance to dust and water ingress, making it ideal for use in harsh conditions. This model is compatible with Siemens' DRIVE-CLiQ interface, enabling seamless integration with Siemens' drive systems.

The 1FT6082-8AK71-2DK4 is well-suited for applications requiring high torque and speed precision, such as robotics, CNC machinery, and automated production lines.

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