1FT6102-8AF71-4EG1

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft6102-8af71-4eg1
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Continuous Torque	27 Nm
Rated Speed	3000 rpm
Cooling Method	Natural air cooling
Mounting Flange	IM B5 (IM V1, IM V3)
Encoder System	Absolute encoder (EnDat 2048 S/R)
Shaft Design	Smooth shaft with circular runout tolerance N
Protection Class	IP65

Description

The Siemens 1FT6102-8AF71-4EG1 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 27 Nm and operates at a rated speed of 3000 rpm, making it suitable for tasks requiring consistent and reliable performance.

The motor features natural air cooling, ensuring efficient thermal management during operation. It is constructed with an IM B5 (IM V1, IM V3) mounting flange, facilitating easy integration into various industrial setups.

The axial DE connector outlet direction simplifies wiring and installation processes. Equipped with an absolute encoder system (EnDat 2048 S/R), the motor provides precise position feedback, enhancing control accuracy.

The smooth shaft design with a circular runout tolerance of N ensures minimal vibration and noise during operation. Additionally, the motor is rated with a vibration severity grade of N, indicating low vibration levels for smooth performance.

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The IP65 protection class offers robust sealing against dust and water ingress, ensuring durability in demanding environments. This motor is ideal for applications in robotics, CNC machinery, and other automation systems where high precision and reliability are paramount.

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