1FT6105-8AF71-3AG1

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft6105-8af71-3ag1
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Motor Type	Synchronous Servomotor
Continuous Torque	50 Nm
Rated Speed	3000 rpm
Mounting Flange	IM B5
Encoder System	Incremental Encoder sin/cos 1 Vpp
Encoder Resolution	2048 pulses per revolution
Shaft Design	Smooth Shaft with Circular Runout Tolerance N
Protection Class	IP65

Description

The Siemens 1FT6105-8AF71-3AG1 is a high-performance synchronous servomotor from the SIMOTICS S series, designed for precision motion control applications. This motor delivers a continuous torque of 50 Nm and operates at a rated speed of 3000 rpm, making it suitable for demanding industrial tasks requiring consistent and reliable performance.

It features natural cooling and is constructed with an IM B5 mounting flange, ensuring easy integration into various machinery setups. The motor is equipped with an incremental encoder system providing sin/cos signals at 1 Vpp with a resolution of 2048 pulses per revolution, facilitating precise position feedback.

Its smooth shaft design with a circular runout tolerance of N ensures minimal vibration and noise during operation. The motor is also rated for vibration severity grade N and comes with an IP65 protection class, offering robust sealing against dust and water ingress.

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This combination of features makes the 1FT6105-8AF71-3AG1 an ideal choice for applications in automation, robotics, and other sectors where high precision and durability are essential.

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