1FT6064-6AF71-3UG0-Z

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft6064-6af71-3ug0-z
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Motor Type	Synchronous Servomotor
Rated Torque	9.5 Nm
Rated Speed	3000 rpm
Cooling Method	Natural Air Cooling
Encoder Type	Absolute Encoder with EnDat 2048 S/R
Shaft Type	Smooth Shaft with Feather Key
Frame Type	IM B5 (IM V1, IM V3)
Protection Class	IP64

Description

The Siemens 1FT6064-6AF71-3UG0-Z is a high-performance synchronous servomotor from the SIMOTICS S 1FT6 series, designed for precision motion control applications. This motor delivers a rated torque of 9.5 Nm at a speed of 3000 rpm, ensuring reliable and efficient operation in demanding industrial environments.

It features natural air cooling, making it suitable for applications where space and cooling efficiency are critical. The motor is equipped with an absolute encoder with EnDat 2048 S/R, providing precise position feedback and enhancing system performance.

Its construction includes a feather key and a smooth shaft with circular runout tolerance N, ensuring mechanical stability and reducing vibration. The motor is housed in an IM B5 (IM V1, IM V3) frame, suitable for flange mounting, and has a vibration severity grade N, indicating low vibration levels during operation.

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With a protection class of IP64, it offers a moderate level of ingress protection against dust and water, making it suitable for various industrial settings. This motor is ideal for applications requiring high precision and reliability, such as robotics, CNC machinery, and automated production lines.

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