1FT6082-8AF71-3AB2

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft6082-8af71-3ab2
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Motor Type	Synchronous Servomotor
Cooling Method	Natural Cooling
Rated Speed	3000 rpm
Nominal Torque	13 Nm
Encoder Type	Incremental Encoder

Description

The Siemens 1FT6082-8AF71-3AB2 is a high-performance synchronous servomotor from the SIMOTICS S series, designed for precision motion control applications. This motor features natural cooling, ensuring efficient operation without the need for external ventilation.

It operates at a rated speed of 3000 rpm, delivering a nominal torque of 13 Nm and a stall torque of 13 Nm, suitable for demanding industrial tasks. The motor is equipped with an incremental encoder providing sin/cos 1 Vpp signals with 2048 signals per revolution, facilitating precise position feedback.

Its construction adheres to the IM B5 standard, with an axial connector outlet direction on the non-drive end (NDE), and it boasts a vibration severity grade of N, indicating minimal operational vibrations.

The motor's protection rating is IP64, offering robust resistance against dust and water ingress. These specifications make the 1FT6082-8AF71-3AB2 ideal for applications requiring reliable and precise motion control in industrial environments.

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