1FT6082-8AF71-4AL2-Z

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft6082-8af71-4al2-z
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Nominal Torque	13 Nm
Speed	3000 rpm
Cooling Type	Naturally cooled
Connector Outlet Direction	Axial
Encoder Type	Incremental encoder (sin/cos 1 Vss 2048 S/R)
Shaft Design	Smooth shaft with circular runout tolerance N
Holding Brake	None
Seal Type	Labyrinth seal (IP64)

Description

The Siemens 1FT6082-8AF71-4AL2-Z is a high-performance synchronous servomotor from the SIMOTICS S series, designed for precise motion control in industrial automation applications. This model features a nominal torque of 13 Nm and operates at a speed of 3000 rpm, making it suitable for tasks requiring consistent and reliable performance.

The motor is naturally cooled and comes with an axial connector outlet direction, facilitating easy integration into various systems. It is equipped with an incremental encoder (sin/cos 1 Vss 2048 S/R), ensuring accurate position feedback for enhanced control.

The smooth shaft design with a circular runout tolerance of N and the absence of a holding brake contribute to its efficient operation. Additionally, the motor has a vibration severity grade of N and is sealed with a labyrinth seal (IP64), providing protection against dust and water ingress.

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These features make the Siemens 1FT6082-8AF71-4AL2-Z servomotor an excellent choice for applications in robotics, CNC machinery, and other automation systems requiring high precision and durability.

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