1FT6031-4AK71-4AH0

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft6031-4ak71-4ah0
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Siemens
Part Number	1FT6031-4AK71-4AH0
Motor Type	Permanent-magnet synchronous motor
Encoder Type	Incremental encoder
Torque Rating	0.75 Nm
Rated Speed	6000 RPM
Maximum Speed	9700 RPM
Power Rating	0.47 kW
Cooling Method	Naturally cooled
Shaft Design	Smooth shaft with circular runout tolerance N
Protection Rating	IP64
Brake Type	Equipped with holding brake

Description

The Siemens 1FT6031-4AK71-4AH0 is a high-performance synchronous servo motor from the 1FT6 series, engineered for precision motion control in industrial automation applications. Designed to deliver reliable and efficient performance, this motor is ideal for tasks requiring accurate positioning and speed control.

Key features include: - **Torque Rating:** 0.75 Newton-meters, providing sufficient force for demanding applications. - **Rated Speed:** 6000 revolutions per minute (RPM), ensuring swift

Automation Trader
960 Capability Green
Luton, Bedfordshire LU1 3PE
VAT ID: PL6463009354
REGON: 527345886
DUNS: 427734105
BDO: 000726360

Phone
+44 7418 359 399

Email
info@automationtrader.com

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operation. - **Maximum Speed:** 9700 RPM, accommodating high-speed requirements. - **Power Rating:** 0.47 kilowatts, balancing energy efficiency with performance. - **Cooling Method:** Naturally cooled, reducing maintenance needs and enhancing reliability. - **Encoder Type:** Incremental encoder with sin/cos 1 Vpp signals and a resolution of 2048 pulses per revolution, facilitating precise position feedback. - **Shaft Design:** Smooth shaft with circular runout tolerance N, ensuring compatibility with various mechanical components. - **Protection Rating:** IP64, offering protection against dust and water ingress for durability in industrial environments. - **Brake Type:** Equipped with a holding brake, providing secure positioning when the motor is not in operation. - **Number of Poles:** 4 poles, contributing to efficient motor operation.

This motor is suitable for integration into various automation systems, including robotics, conveyor systems, and CNC machinery, where precise control and reliability are paramount.