1FT6031-4AK71-3TG0

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft6031-4ak71-3tg0
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Siemens
Part Number	1FT6031-4AK71-3TG0
Product Type	Synchronous Servomotor
Rated Torque	1.0 Nm
Rated Speed	100,000 rpm
Continuous Power	0.47 kW
Maximum Speed	6,000 rpm
Mounting Flange	IM B5 (IM V1, IM V3)
Encoder Type	Incremental Encoder
Encoder Resolution	2,048 counts per revolution
Shaft Type	Feather Key
Holding Brake	None

Description

The Siemens 1FT6031-4AK71-3TG0 is a high-performance synchronous servomotor from the SIMOTICS S series, designed for precise motion control in industrial automation applications. This model features a rated torque of 1.0 Nm at 100,000 rpm, delivering a continuous output power of 0.47 kW.

It operates at a maximum speed of 6,000 rpm, ensuring efficient performance across various tasks. The motor is naturally cooled and comes with an IM B5 (IM V1, IM V3) mounting flange, suitable for both vertical and horizontal installations.

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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It is equipped with an incremental encoder with a sin/cos 1 Vss signal and a resolution of 2,048 counts per revolution, providing accurate position feedback. The motor shaft includes a feather key, and it has a circular runout tolerance of N, ensuring precise mechanical integration.

Designed without a holding brake, it maintains a compact form factor. The motor's vibration severity grade is N, indicating low vibration levels during operation. Additionally, it features a labyrinth seal with an IP64 rating, offering protection against dust and water ingress.

This servomotor is ideal for applications requiring high precision and reliability, such as robotics, CNC machinery, and automated assembly lines.