1FT6034-4AK71-4AA1

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft6034-4ak71-4aa1
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Voltage	600 V AC
Rated Torque	2.0 Nm
Rated Speed	6000 rpm
Power Output	0.88 kW
Encoder Type	Incremental
Encoder Resolution	2048 counts per revolution
Protection Class	IP65

Description

The Siemens 1FT6034-4AK71-4AA1 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 2.0 Nm at 100,000 rpm, a rated speed of 6,000 rpm, and a power output of 0.88 kW.

It operates on a 600 V AC supply and is naturally cooled, ensuring efficient thermal management. The motor is equipped with an incremental encoder with a 1 V sin/cos signal and a resolution of 2,048 counts per revolution, facilitating accurate position feedback.

Its smooth shaft design minimizes vibration, and the motor is rated IP65 for protection against dust and water ingress. The 1FT6034-4AK71-4AA1 is suitable for applications requiring high precision and reliability, such as robotics, CNC machinery, and automated assembly lines.

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