AUTOMATION TRADER

1FK6040-6AK71-1TB0

Industrial automation components

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Manufacturer	Siemens
Catalog number	1fk6040-6ak71-1tb0
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Motor Type	Synchronous Servo Motor
Series	1FK6
Pole Count	6
Rated Torque	1.6 Nm
Rated Speed	6000 rpm
Cooling Type	Natural Air Cooling
Construction Type	IM B5 (V1, V3)
Connector Rotation	270 degrees
Resolver Type	2-pole (P=1)
Shaft Design	Feather Key, Tolerance N
Holding Brake	Yes
Degree of Protection	IP64

Description

The Siemens 1FK6040-6AK71-1TB0 is a synchronous servo motor from the 1FK6 series, designed for high-performance applications requiring precise motion control. This 6-pole motor delivers a rated torque of 1.6 Nm at a rated speed of 6000 RPM, making it suitable for tasks demanding rapid acceleration and deceleration.

It operates with natural air cooling, ensuring efficient thermal management without the need for additional cooling systems. The motor features an IM B5 (V1, V3) construction, allowing for versatile

mounting options.

Equipped with power and signal connectors that can be rotated by 270 degrees, it offers flexibility in installation. The motor utilizes a 2-pole resolver (P=1) for precise position feedback, and its shaft is designed with a feather key and tolerance N, ensuring secure coupling with driven components.

Additionally, the motor includes a holding brake, providing safety and stability during operation. With a degree of protection IP64, the 1FK6040-6AK71-1TB0 is built to withstand challenging industrial environments, offering durability and reliability in demanding applications.