1FK7100-5AF71-1AA0

Industrial automation components

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Manufacturer	Siemens
Catalog number	1fk7100-5af71-1aa0
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Motor Type	Synchronous
Rated Speed	3000 RPM
Rated Torque	18 Nm
Peak Torque	54 Nm
Rated Power	3.75 kW
Cooling Type	Natural Air Cooling
Mounting Type	IM B5 (IM V1, IM V3)
Connector Rotation	270 degrees
Encoder Type	Incremental Encoder
Encoder Signal	Sin/Cos 1 Vpp
Encoder Resolution	2048 PPR
Shaft End	Smooth

Description

The Siemens 1FK7100-5AF71-1AA0 is a compact synchronous servo motor from the SIMOTICS S series, designed for precise motion control applications. This three-phase servomotor operates at a rated speed of 3000 RPM, delivering a continuous torque of 18 Nm and a peak torque of 54 Nm.

It provides a rated power output of 3.75 kW, suitable for demanding automation tasks. The motor features natural air cooling, eliminating the need for external cooling systems. Its construction adheres to the IM B5 (IM V1, IM V3) mounting standard, ensuring compatibility with various industrial

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setups.

The power and signal connectors are rotatable by 270 degrees, offering flexible installation options. Equipped with an incremental encoder with a sin/cos 1 Vpp signal and 2048 pulses per revolution, it ensures precise position feedback.

The shaft end is smooth with a radial eccentricity tolerance of N, and the motor includes a holding brake for enhanced safety during operation. With a degree of protection rated at IP64, the motor is suitable for use in environments where dust and water ingress are concerns.

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