1FK7101-5AF71-1FH3-Z

Industrial automation components

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Manufacturer	Siemens
Catalog number	1fk7101-5af71-1fh3-z
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Motor Type	Synchronous motor
Rated Torque	27 Nm
Rated Speed	3000 rpm
Continuous Output	4.85 kW
DC Link Voltage	600V
Cooling Type	Natural air cooling
Encoder System	Absolute encoder EnDat 2048 pulses/rev
Holding Brake	With holding brake
Degree of Protection	IP64
Construction Type	IM B5
Connector Rotation	270° degrees

Description

The Siemens 1FK7101-5AF71-1FH3-Z is a compact synchronous servo motor from the SIMOTICS S series, designed for high-performance applications requiring precise motion control. This motor features a rated torque of 27 Nm, a rated speed of 3000 rpm, and a continuous output of 4.85 kW, making it suitable for demanding industrial automation tasks.

It operates with a 600V DC link voltage and utilizes natural air cooling for efficient thermal management. The motor is equipped with an absolute encoder system (EnDat 2048 pulses/rev) and includes a holding brake, ensuring reliable position control and safety during operation.

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With a degree of protection IP64, it is well-suited for environments where dust and water ingress are concerns. The motor's construction type is IM B5, and it offers a power/signal connector that can be rotated by 270°, providing flexibility in installation.

This model is ideal for applications in robotics, CNC machinery, and other systems requiring precise and reliable motion control.

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