1FK7042-5AF71-1SH3

Industrial automation components

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Manufacturer	Siemens
Catalog number	1fk7042-5af71-1sh3
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Motor Type	Synchronous
Rated Torque	3.0 Nm
Rated Speed	3000 rpm
Rated Power	0.82 kW
Encoder Type	Absolute Encoder
Encoder Resolution	2048 pulses/rev
Mounting Flange	IM B5 (IM V1, IM V3)
Protection Class	IP64

Description

The Siemens 1FK7042-5AF71-1SH3 is a compact synchronous servo motor from the SIMOTICS S 1FK7 series, designed for precise motion control applications. This model features a rated torque of 3.0 Nm, a rated speed of 3000 rpm, and a rated power of 0.82 kW, operating with natural air cooling.

It utilizes an absolute encoder with 2048 pulses per revolution (A-2048) and a DRIVE-CLiQ interface, ensuring high-resolution feedback for accurate positioning. The motor has a plain shaft with a fitted key, tolerance N, and is constructed with an IP64 degree of protection, making it suitable for various industrial environments.

The IM B5 (IM V1, IM V3) mounting flange allows for flexible installation options. This motor is ideal for applications requiring high precision and reliability, such as robotics, CNC machinery, and automated assembly lines.

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