1FK7042-5AC71-1FA5

Industrial automation components

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Manufacturer	Siemens
Catalog number	1fk7042-5ac71-1fa5
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Siemens
Part Number	1FK7042-5AC71-1FA5
Product Type	Synchronous Servo Motor
Continuous Torque	3.0 Nm
Maximum Speed	3000 rpm
Power Output	0.82 kW
Cooling Type	Natural Air Cooling
Frame Type	IM B5 (IM V1, IM V3)
Connector Type	Rotatable Power/Signal Connector Plug
Encoder Type	Absolute Encoder 2048 P/R (Encoder A-2048) with DRIVE-CLiQ Interface
Shaft Type	Shaft with Fitted Key, Tolerance N
Holding Brake	Without Holding Brake

Description

The Siemens 1FK7042-5AC71-1FA5 is a SIMOTICS S synchronous servo motor from the 1FK7 Compact series, designed for precise motion control applications. This motor delivers a continuous torque of 3.0 Nm and operates at a maximum speed of 3000 rpm, providing a power output of 0.82 kW.

It features natural air cooling and is housed in an IM B5 (IM V1, IM V3) frame, ensuring robust performance in various industrial environments. The motor is equipped with a rotatable power/signal

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connector plug, allowing for flexible installation.

It utilizes an absolute encoder with 2048 pulses per revolution (Encoder A-2048) and a DRIVE-CLiQ interface, facilitating seamless integration with Siemens drive systems. The shaft includes a fitted key with tolerance N, and the motor is designed without a holding brake.

With a degree of protection IP64, it offers reliable operation in demanding conditions. This motor is suitable for applications requiring high precision and dynamic response, such as robotics, CNC machinery, and automated production lines.