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1FK7042-5AF71-1KG2

Industrial automation components

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Manufacturer	Siemens
Catalog number	1fk7042-5af71-1kg2
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Motor Type	Synchronous Servo Motor
Rated Torque	3.0 Nm
Rated Speed	3000 rpm
Optimal Power	0.82 kW
Cooling Type	Natural Cooling

Description

The Siemens 1FK7042-5AF71-1KG2 is a compact synchronous servo motor from the SIMOTICS S 1FK7 series, designed for precise motion control applications. It delivers a rated torque of 3.0 Nm at 3000 rpm, with an optimal power output of 0.82 kW.

The motor operates with natural cooling and features an IM B5 (IM V1, IM V3) mounting flange. Its power and signal connectors are rotatable by 270°, facilitating flexible installation. Equipped with a basic absolute encoder (32 P/REV), the motor offers high-resolution feedback for accurate position sensing.

The shaft includes a fitted key with tolerance N, and the motor is designed without a holding brake. It has a degree of protection IP65, ensuring resistance to dust and water ingress. This motor is suitable for applications requiring high precision and reliability in industrial automation systems.

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