1FK7042-5AK71-1DA2

Industrial automation components

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Manufacturer	Siemens
Catalog number	1fk7042-5ak71-1da2
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Motor Type	Synchronous
Continuous Torque	3.0 Nm
Maximum Speed	6000 RPM
Power Output	1.02 kW
Mounting Flange	IM B5 (IM V1, IM V3)

Description

The Siemens 1FK7042-5AK71-1DA2 is a compact synchronous servo motor from the SIMOTICS S series, designed for precise motion control in industrial automation applications. This motor delivers a continuous torque of 3.0 Nm and operates at a maximum speed of 6000 RPM, providing a power output of 1.02 kW.

It features natural cooling and is constructed with an IM B5 (IM V1, IM V3) mounting flange, ensuring versatile installation options. The motor is equipped with an incremental encoder system offering 2048 pulses per revolution, facilitating accurate position feedback.

Its shaft includes a fitted key with tolerance N, and it is designed without a holding brake. The degree of protection is IP65 for the motor housing and IP67 for the drive end flange, offering robust protection against dust and water ingress.

This motor is suitable for applications requiring high precision and reliability in motion control systems.

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