AUTOMATION TRADER

1FK7040-5AK71-1AH0

Industrial automation components

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Manufacturer	Siemens
Catalog number	1fk7040-5ak71-1ah0
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Motor Type	Synchronous
Standstill Torque	1.6 Nm
Rated Speed	6000 rpm
Nominal Power Output	0.69 kW
DC Link Voltage	600 V

Description

The Siemens 1FK7040-5AK71-1AH0 is a compact synchronous servomotor from the SIMOTICS S 1FK7 series, designed for precise motion control in industrial automation applications. This three-phase servomotor delivers a standstill torque of 1.6 Nm at 100 K, with a rated speed of 6000 rpm and a nominal power output of 0.69 kW.

It operates at a DC link voltage of 600V and features natural cooling, eliminating the need for external cooling systems. The motor is constructed with an IM B5 (IM V1, IM V3) mounting flange, ensuring compatibility with various industrial setups.

Its power and signal connectors are rotatable by 270°, facilitating flexible installation. The motor is equipped with an incremental encoder system providing sin/cos 1 Vpp signals with a resolution of 2048 pulses per revolution, ensuring accurate position feedback.

The shaft end is smooth with a tolerance of N, and it includes a holding brake for enhanced safety during operation. With a degree of protection rated at IP64, the motor is suitable for use in environments where dust and water ingress are minimal.

This motor is ideal for applications requiring precise and reliable motion control, such as in CNC machines, robotics, and automated assembly lines.

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