1FK7022-5AK71-1LH0-LPK-050-M02-10-011

Industrial automation components

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Manufacturer	Siemens
Catalog number	1fk7022-5ak71-1lh0-lpk-050-m02-10-011
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Siemens
Part Number	1FK7022-5AK71-1LH0
Product Type	Synchronous Servomotor
Continuous Torque	0.85 Nm
Maximum Speed	6000 rpm
Continuous Power Output	0.38 kW
Cooling Type	Natural Cooling
Connector Rotation	270 degrees
Frame Size	IMB 5
Encoder Type	Absolute Encoder
Encoder Resolution	20-bit
Interface Type	Drive-CLiQ

Description

The Siemens 1FK7022-5AK71-1LH0 is a SIMOTICS S synchronous servomotor from the 1FK7 Compact series, designed for precise motion control in industrial automation applications. This motor delivers a continuous torque of 0.85 Nm and operates at a maximum speed of 6,000 rpm, providing a continuous power output of 0.38 kW.

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It features natural cooling and is equipped with power and signal connectors that can be rotated by 270 degrees, offering flexible installation options. The motor's frame size is IMB 5, compatible with mounting standards IM V1 and IM V3, and it includes a flange 1 for secure attachment.

An absolute encoder with a 20-bit resolution and a 12-bit multi-turn capability is integrated, utilizing the Drive-CLiQ interface (encoder AM20DQ). Note that the inclusion of the absolute encoder results in a 10% reduction in performance.

The motor has a plain shaft with tolerance N and is equipped with a holding brake, providing a holding torque of 1.0 Nm. Its degree of protection is IP64, ensuring resistance to dust and water ingress.

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