1FK7042-5AK71-1EH5

Industrial automation components

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Manufacturer	Siemens
Catalog number	1fk7042-5ak71-1eh5
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Motor Type	Synchronous
Rated Power	1.02 kW
Rated Speed	6000 RPM
Rated Torque	3 Nm
Encoder Resolution	2048 pulses per revolution

Description

The Siemens 1FK7042-5AK71-1EH5 is a compact synchronous servo motor from the 1FK7 series, engineered for high-performance applications requiring precise motion control. Designed for three-phase operation, this motor delivers a rated power output of 1.02 kW and achieves a maximum speed of 6000 RPM, providing a torque of 3 Nm.

Its natural cooling system ensures efficient thermal management without the need for additional cooling mechanisms. The motor features a plain shaft with a tolerance of N and is equipped with a holding brake, enhancing its suitability for applications where precise positioning and holding are critical.

The degree of protection is IP65, with the flange end rated at IP67, offering robust resistance against dust and water ingress. The motor's construction adheres to the IM B5 (IM V1, IM V3) mounting standard, facilitating versatile installation options.

The power and signal connectors are rotatable by 270 degrees, allowing for flexible wiring configurations. An absolute encoder with a resolution of 2048 pulses per revolution (Encoder A-2048) is included, ensuring accurate feedback for precise control.

Automation Trader
960 Capability Green
Luton, Bedfordshire LU1 3PE
VAT ID: PL6463009354
REGON: 527345886
DUNS: 427734105
BDO: 000726360

Phone
+44 7418 359 399

Email
info@automationtrader.com

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This motor is ideal for integration with Siemens SINAMICS S120 drive systems, making it suitable for applications such as positioning axes, indexing tables, and small-format packaging or handling lines.

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