1FK7042-2AK71-1CG1-Z

Industrial automation components

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Manufacturer	Siemens
Catalog number	1fk7042-2ak71-1cg1-z
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Rated Power	0.94 kW
Rated Speed	6000 rpm
Rated Torque	1.5 Nm
Stall Torque	3.0 Nm
Rated Current	2.5 A
Number of Poles	8 poles
Cooling Type	Natural
Protection Class	IP65

Description

The Siemens 1FK7042-2AK71-1CG1-Z is a compact synchronous servo motor from the SIMOTICS S-1FK7 series, designed for precise motion control applications. With a rated power of 0.94 kW and a rated speed of 6,000 rpm, it delivers a rated torque of 1.5 Nm and a stall torque of 3.0 Nm.

The motor operates at a rated current of 2.5 A and features a 2-pole resolver with a DRIVE-CLiQ interface for seamless integration. Its natural cooling design (IMB 5) ensures efficient thermal management, and the IP65 degree of protection provides robust resistance against dust and water ingress.

The motor's dimensions and weight are optimized for space-constrained installations, making it suitable for various industrial automation tasks requiring high precision and reliability.

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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