AUTOMATION TRADER

1FK7022-5AK71-1LH5-Z

Industrial automation components

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Manufacturer	Siemens
Catalog number	1fk7022-5ak71-1lh5-z
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Motor Type	Synchronous
Servomotor Type	Three-phase servomotor
Series	7
Size	02
Length	2
Cooling	Non-ventilated
Rated Speed	6000 rpm
DC Link Voltage	600 V
Type of Construction	IM B5
Encoder System	Absolute encoder EnDat 512 pulses/rev. (with DRIVE-CLiQ interface)
Holding Brake	With holding brake
Degree of Protection	IP 65 and, in addition, IP 67 for the drive end flange

Description

The Siemens 1FK7022-5AK71-1LH5-Z is a compact synchronous servo motor from the SIMOTICS S series, designed for precise motion control in industrial automation applications. This three-phase servomotor delivers a continuous torque of 0.85 Nm and operates at a rated speed of 6000 rpm, providing a power output of 0.38 kW.

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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It features natural cooling, eliminating the need for external cooling systems. The motor is equipped with an absolute encoder system offering 20-bit resolution and a 12-bit multi-turn count, interfacing via the Drive-CLiQ protocol.

This encoder system ensures precise position feedback, with a performance derating of approximately 10% due to the encoder's high-resolution capabilities. The motor's construction adheres to the IM B5 standard, suitable for flange mounting, and includes a holding brake for enhanced safety during operation.

With a degree of protection rated at IP65 for the flange and IP67 for the drive end flange, the motor is well-suited for environments requiring high ingress protection. The paint finish is RAL7016, providing additional durability and aesthetic appeal.

This motor is ideal for applications requiring high precision and reliability, such as robotics, CNC machinery, and automated assembly lines.