1FK7105-5AF71-1DB5-Z

Industrial automation components

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Manufacturer	Siemens
Catalog number	1fk7105-5af71-1db5-z
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Siemens
Part Number	1FK7105-5AF71-1DB5-Z
Motor Type	Synchronous
Servo Motor Type	Three-phase servomotor
Series	1FK7
Size	10
Length	5
Cooling	Non-ventilated
Rated Speed	3000 rpm
Rated Torque	26.0 Nm
Stall Torque	48.0 Nm
DC Link Voltage	600 V

Description

The Siemens 1FK7105-5AF71-1DB5-Z is a compact, non-ventilated three-phase synchronous servomotor designed for precise motion control applications. Operating at a rated speed of 3000 rpm, it delivers a rated torque of 26.0 Nm and a stall torque of 48.0 Nm, ensuring reliable performance in demanding environments.

The motor features a 600V DC link voltage and is constructed with an IM B5 (IM V1, IM V3) mounting type, suitable for various industrial setups. It utilizes an incremental encoder system with a

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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sin/cos 1 Vpp signal, providing accurate position feedback without the DRIVE-CLiQ interface.

The motor is equipped with a holding brake, enhancing its suitability for applications requiring position hold during power loss or shutdowns. With a degree of protection rated at IP 65 and IP 67 for the drive end flange, it offers robust protection against dust and water ingress, making it ideal for harsh industrial conditions.

This motor is part of Siemens' 1FK7 series, known for their high performance and reliability in automation systems.