# 1FK7103-5AF71-1FH3-Z

Industrial automation components

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|---|---|
| **Manufacturer** | Siemens |
| **Catalog number** | 1fk7103-5af71-1fh3-z |
| **Category** | Industrial automation components |
| **Product type** | Industrial automation components |
| **Status** | Active product |

## Technical specification

| | |
|---|---|
| **Continuous Torque** | 22 Nm |
| **Rated Speed** | 3000 rpm |
| **Power Output** | 2.1 kW |
| **Cooling Type** | Natural Air Cooling |
| **Mounting Type** | IM B5 |
| **Encoder Type** | Absolute Encoder with Drive-CLiQ Interface |
| **Shaft Type** | Plain Shaft with Tolerance N |
| **Holding Brake** | Yes |
| **Degree of Protection** | IP64 |
| **Special Features** | Custom Configuration ('-Z' Suffix) |

## Description

The Siemens 1FK7103-5AF71-1FH3-Z is a high-performance synchronous servo motor from the SIMOTICS S-1FK7 Compact series, engineered for demanding industrial automation applications. This motor delivers a continuous torque of 22 Nm at a rated speed of 3000 rpm, with a power output of 2.1 kW.

It features natural air cooling, ensuring efficient thermal management in various operational environments. Designed for IM B5 mounting, it offers versatility in installation. The motor is equipped with an absolute encoder with a Drive-CLiQ interface, providing precise positioning feedback.

**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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Its plain shaft with tolerance N and holding brake enhance operational reliability. With a degree of protection IP64, the motor is suitable for use in environments where dust and water ingress are concerns.

The '-Z' suffix indicates specific custom features or configurations tailored to particular application requirements. This servo motor is ideal for applications requiring high torque and dynamic response, such as robotics, automated manufacturing, material handling, and complex machine tool operations.