# 1FK7042-5AF71-1UH3-Z

Industrial automation components

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|---|---|
| **Manufacturer** | Siemens |
| **Catalog number** | 1fk7042-5af71-1uh3-z |
| **Category** | Industrial automation components |
| **Product type** | Industrial automation components |
| **Status** | Active product |

## Technical specification

| | |
|---|---|
| **Brand** | Siemens |
| **Part Number** | 1FK7042-5AF71-1UH3-Z |
| **Product Type** | Synchronous Servo Motor |
| **Series** | SIMOTICS S 1FK7 |
| **Rated Torque** | 3.0 Nm |
| **Rated Speed** | 3000 rpm |
| **Power Output** | 0.82 kW |
| **DC Link Voltage** | 600 V |
| **Cooling Type** | Naturally Cooled |
| **Mounting Flange** | IM B5 (IM V1, IM V3) |
| **Connector Rotation** | 270° |
| **Encoder System** | Resolver |

## Description

The Siemens 1FK7042-5AF71-1UH3-Z is a compact synchronous servo motor from the SIMOTICS S 1FK7 series, designed for precise motion control applications. This model features a rated torque of 3.0 Nm, a rated speed of 3000 rpm, and a power output of 0.82 kW.

It operates with a DC link voltage of 600V and is naturally cooled, ensuring efficient thermal management. The motor is constructed with an IM B5 (IM V1, IM V3) mounting flange, allowing for versatile installation options.

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Its power and signal connectors are rotatable by 270°, facilitating flexible wiring configurations. The motor is equipped with a resolver encoder system, providing reliable position feedback without the DRIVE-CLiQ interface.

It includes a holding brake for enhanced safety during operation. The degree of protection is IP64, offering resistance against dust and water ingress. This motor is suitable for applications requiring precise positioning and reliable performance in industrial automation systems.

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