# 1FK7083-5AF71-1EH3

Industrial automation components

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| **Manufacturer** | Siemens |
| **Catalog number** | 1fk7083-5af71-1eh3 |
| **Category** | Industrial automation components |
| **Product type** | Industrial automation components |
| **Status** | Active product |

## Technical specification

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|---|---|
| **Motor Type** | Synchronous |
| **Rated Speed** | 3000 rpm |
| **Rated Torque** | 10.5 Nm |
| **Cooling Type** | Natural Air Cooling |
| **Protection Rating** | IP64 |

## Description

The Siemens 1FK7083-5AF71-1EH3 is a compact synchronous servo motor from the SIMOTICS S series, designed for precise motion control applications. Operating at a rated speed of 3,000 rpm, it delivers a rated torque of 10.5 Nm, making it suitable for tasks requiring consistent and reliable performance.

The motor's natural air cooling system ensures efficient thermal management, while its IP64 protection rating provides resistance against dust and water ingress, enhancing durability in industrial environments.

Equipped with an absolute encoder (A-2048) with 2,048 pulses per revolution, it offers high-resolution feedback for accurate position sensing. The motor's design includes a plain shaft with tolerance N and a holding brake, ensuring secure operation during stationary periods.

With a maximum permissible speed of 6,000 rpm and a maximum torque of 50.0 Nm, the 1FK7083-5AF71-1EH3 is versatile for various automation tasks.

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