# 1FT6041-4AF71-4AK7

Industrial automation components

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| **Manufacturer** | Siemens |
| **Catalog number** | 1ft6041-4af71-4ak7 |
| **Category** | Industrial automation components |
| **Product type** | Industrial automation components |
| **Status** | Active product |

## Technical specification

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|---|---|
| **Brand** | Siemens |
| **Part Number** | 1FT6041-4AF71-4AK7 |
| **Product Type** | Synchronous Servo Motor |
| **Rated Torque** | 2.5 Nm |
| **Rated Speed** | 6000 rpm |
| **Cooling Type** | Naturally Cooled |
| **Encoder Type** | Incremental Encoder |
| **Encoder Resolution** | 2048 S/R |
| **Construction Standard** | IM B5 (IM V1, IM V3) |
| **Shaft Design** | Smooth Shaft with Circular Runout Tolerance N |
| **Holding Brake** | Not Included |
| **Sealing Ring** | Gamma Sealing Ring |

## Description

The Siemens 1FT6041-4AF71-4AK7 is a high-performance synchronous servo motor from the SIMOTICS S series, designed for precision motion control applications. This model features a rated torque of 2.5 Nm and operates at a rated speed of 6000 rpm, making it suitable for demanding industrial tasks requiring high-speed and high-torque performance.

The motor is naturally cooled, ensuring efficient thermal management during operation. It is equipped with an incremental encoder with a sin/cos 1 Vss signal and a resolution of 2048 S/R, providing

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precise feedback for accurate positioning.

The motor's construction adheres to the IM B5 (IM V1, IM V3) standard, with an axial connector outlet direction (DE), facilitating easy integration into various systems. The shaft end is designed as a smooth shaft with a circular runout tolerance of N, and it does not include a holding brake.

The motor is rated for vibration severity grade N and features a gamma sealing ring with an IP65 protection rating, ensuring durability and reliability in industrial environments. This servo motor is ideal for applications in robotics, CNC machinery, and other automation systems where precise motion control is essential.