# 1FK7042-2AC71-1CG1-Z-SP075S-MF2

Industrial automation components

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| **Manufacturer** | Siemens |
| **Catalog number** | 1fk7042-2ac71-1cg1-z-sp075s-mf2 |
| **Category** | Industrial automation components |
| **Product type** | Industrial automation components |
| **Status** | Active product |

## Technical specification

| | |
|---|---|
| **Brand** | Siemens |
| **Part Number** | 1FK7042-2AC71-1CG1-Z + SP075S-MF2 |
| **Product Type** | Synchronous Servo Motor with Planetary Gearbox |
| **Rated Power** | 0.82 kW |
| **Rated Voltage** | 600 V |
| **Continuous Torque** | 3 Nm |
| **Maximum Speed** | 3000 rpm |
| **Cooling Type** | Natural Cooling |
| **Encoder Resolution** | 24-bit single-turn, 12-bit multi-turn |
| **Gearbox Model** | SP075S-MF2 |

## Description

The Siemens 1FK7042-2AC71-1CG1-Z + SP075S-MF2 is a high-performance synchronous servo motor and planetary gearbox combination designed for precise motion control applications. Manufactured by Siemens, this integrated system offers a compact solution for demanding automation tasks.

The motor features a rated power of 0.82 kW, operates at a rated voltage of 600 V, and delivers a continuous torque of 3 Nm. It achieves a maximum speed of 3000 rpm and utilizes natural cooling for efficient thermal management.

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The motor is equipped with a rotatable absolute encoder with a 24-bit single-turn and 12-bit multi-turn resolution, providing precise position feedback. The planetary gearbox, identified as SP075S-MF2, is designed to complement the motor's performance, offering enhanced torque transmission and compactness.

This combination is ideal for applications requiring high precision and reliability, such as robotics, CNC machinery, and automated assembly lines.

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