AUTOMATION TRADER

# 1FT6086-8AH71-3AK1

Industrial automation components

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|---|---|
| **Manufacturer** | Siemens |
| **Catalog number** | 1ft6086-8ah71-3ak1 |
| **Category** | Industrial automation components |
| **Product type** | Industrial automation components |
| **Status** | Active product |

## Technical specification

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|---|---|
| **Motor Type** | Synchronous Servomotor |
| **Continuous Torque** | 27 Nm |
| **Rated Speed** | 4500 rpm |
| **Cooling Method** | Natural Cooling (IM B5) |
| **Encoder Type** | Incremental Encoder (sin/cos 1 Vss 2048 S/R) |
| **Shaft Design** | Smooth Shaft with Circular Runout Tolerance N |
| **Sealing Type** | Gamma Sealing Ring (IP65) |

## Description

The Siemens 1FT6086-8AH71-3AK1 is a SIMOTICS S synchronous servomotor from the 1FT6 series, designed for high-performance applications requiring precise motion control. This motor delivers a continuous torque of 27 Nm and operates at a rated speed of 4500 rpm, making it suitable for demanding industrial environments.

It features natural cooling (IM B5) and is equipped with an incremental encoder (sin/cos 1 Vss 2048 S/R) for accurate position feedback. The motor's smooth shaft design ensures minimal radial runout, and it is rated with vibration severity grade N, indicating low vibration levels during operation.

Additionally, the motor is protected by a Gamma sealing ring (IP65), providing resistance against dust and water ingress, which enhances its durability in harsh conditions. This servomotor is ideal for applications in automation systems, robotics, and other machinery requiring reliable and precise motion control.

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