1FT6031-4AK71-4AG1

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft6031-4ak71-4ag1
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Rated Torque	1.0 Nm
Rated Speed	6000 RPM
Continuous Output Power	0.47 kW
Encoder Type	Absolute Encoder (EnDat 2048 S/R)
Cooling Type	Naturally Cooled
Protection Class	IP65

Description

The Siemens 1FT6031-4AK71-4AG1 is a high-performance synchronous servomotor from the SIMOTICS S series, designed for precision motion control applications. This model features a rated torque of 1.0 Nm at 100% rated speed, delivering a continuous output power of 0.47 kW.

Operating at a rated speed of 6000 RPM, it ensures efficient and reliable performance in demanding industrial environments. The motor is naturally cooled and comes with an axial connector outlet direction, facilitating easy integration into various systems.

It is equipped with an absolute encoder (EnDat 2048 S/R), providing precise position feedback for enhanced control accuracy. The motor's smooth shaft design and circular runout tolerance N contribute to its operational stability.

Additionally, it features a vibration severity grade N and a gamma sealing ring (IP65), ensuring durability and protection against environmental factors. This servomotor is suitable for applications requiring high precision and reliability, such as robotics, CNC machinery, and automated production lines.

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