1FT6031-4AK71-4EH2

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft6031-4ak71-4eh2
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Siemens
Part Number	1FT6031-4AK71-4EH2
Product Type	Synchronous Servomotor
Rated Torque	0.75 Nm
Rated Speed	6000 rpm
Output Power	0.47 kW
Cooling Method	Naturally Cooled
Encoder Type	Absolute Encoder (EnDat 2048 S/R)
Mounting Standard	IM B5 (IM V1, IM V3)
Connector Outlet Direction	Axial
Shaft Design	Smooth Shaft with Circular Runout Tolerance N

Description

The Siemens 1FT6031-4AK71-4EH2 is a high-performance synchronous servomotor from the SIMOTICS S series, designed for precision motion control applications. This motor features a rated torque of 0.75 Nm at 100,000 rpm, delivering a continuous output power of 0.47 kW.

It operates at a rated speed of 6,000 rpm and is naturally cooled, ensuring efficient thermal management. The motor is equipped with an absolute encoder (EnDat 2048 S/R), providing precise position feedback for accurate control.

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Its construction adheres to the IM B5 (IM V1, IM V3) standard, suitable for various mounting configurations. The axial connector outlet direction facilitates straightforward integration into existing systems.

With a smooth shaft design and a circular runout tolerance of N, the motor ensures reliable performance in demanding environments. The vibration severity grade is N, indicating suitability for standard industrial applications.

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