1FT6041-4AK71-4EH2

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft6041-4ak71-4eh2
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Motor Type	Synchronous Servomotor
Cooling Type	Natural Air Cooling
Rated Torque	2.5 Nm
Rated Speed	6000 rpm
Encoder Type	Absolute Encoder (EnDat 2048 S/R)

Description

The Siemens 1FT6041-4AK71-4EH2 is a SIMOTICS S synchronous servomotor from the 1FT6 series, designed for precise motion control in industrial automation applications. This motor features a rated torque of 2.5 Nm at 100,000 rpm, delivering optimal performance at a rated speed of 6,000 rpm.

It operates with natural air cooling and is equipped with an absolute encoder (EnDat 2048 S/R), ensuring high-resolution position feedback. The motor's design includes a smooth shaft with a circular runout tolerance of N, and it is rated for vibration severity grade N.

Additionally, it has a radial shaft seal with an ingress protection rating of IP67, providing robust protection against dust and water ingress. The 1FT6041-4AK71-4EH2 is suitable for applications requiring high precision and reliability, such as robotics, CNC machinery, and automated assembly lines.

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