1FT6064-6AK71-4SK5

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft6064-6ak71-4sk5
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Siemens
Part Number	1FT6064-6AK71-4SK5
Series	SIMOTICS S
Motor Type	Synchronous Servomotor
Rated Torque	9.5 Nm
Maximum Speed	6000 rpm
Cooling Method	Natural Cooling
Mounting Type	IM B5 (IM V1, IM V3)
Connector Outlet Direction	Axial DE
Encoder Type	Incremental Encoder
Encoder Signal	Sin/Cos 1 Vpp
Encoder Resolution	2048 S/R

Description

The Siemens 1FT6064-6AK71-4SK5 is a synchronous servomotor from the SIMOTICS S series, designed for precise motion control in industrial applications. This motor features a rated torque of 9.5 Nm and operates at a maximum speed of 6000 rpm, making it suitable for high-performance tasks requiring rapid response and stability.

It utilizes natural cooling and is constructed with an IM B5 (IM V1, IM V3) mounting type, ensuring versatility in installation. The motor is equipped with an axial DE connector outlet direction for

AUTOMATION TRADER

Automation Trader
960 Capability Green
Luton, Bedfordshire LU1 3PE
VAT ID: PL6463009354
REGON: 527345886
DUNS: 427734105
BDO: 000726360

Phone
+44 7418 359 399

Email
info@automationtrader.com

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both power and signal connections.

For feedback, it employs an incremental encoder with a sin/cos 1 Vpp signal and a resolution of 2048 S/R, facilitating accurate position and speed monitoring. The shaft end is smooth, with a circular runout tolerance of N, and the motor does not include a holding brake.

It has a vibration severity grade of N and is sealed with a labyrinth seal rated at IP64, providing protection against dust and water ingress. This motor is ideal for applications such as CNC machines, packaging equipment, conveyors, and handling systems, where precise and reliable motion control is essential.