1FK6060-6AF71-1EH2

Industrial automation components

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Manufacturer	Siemens
Catalog number	1fk6060-6af71-1eh2
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Siemens
Part Number	1FK6060-6AF71-1EH2
Motor Type	Synchronous Servo Motor
Number of Poles	6
Nominal Torque	6.0 Nm
Rated Speed	3000 RPM
Cooling Type	Natural Air Cooling
Construction Type	IM B5 (V1, V3)
Connector Rotation	270 degrees
Encoder Type	Absolute Encoder (EnDat 2048 S/R)
Shaft Design	Smooth Shaft with Tolerance N
Holding Brake	Included

Description

The Siemens 1FK6060-6AF71-1EH2 is a high-performance synchronous servo motor designed for precision applications in industrial automation. Manufactured by Siemens, a leader in automation technology, this motor offers exceptional reliability and efficiency.

Key features include a 6-pole design, delivering a nominal torque of 6.0 Nm at a rated speed of 3000 RPM, making it suitable for applications requiring consistent and precise motion control. The motor operates with natural air cooling, ensuring optimal performance without the need for additional

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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cooling systems.

It features an IM B5 (V1, V3) construction type, allowing for versatile mounting options. The power and signal connectors are rotatable by 270 degrees, providing flexibility in installation. Equipped with an absolute encoder (EnDat 2048 S/R), the motor ensures precise position feedback, enhancing control accuracy.

The smooth shaft design with tolerance N and the inclusion of a holding brake add to its operational versatility. With a degree of protection rated at IP65 for the motor and IP67 for the flange, the 1FK6060-6AF71-1EH2 is built to withstand challenging industrial environments, offering durability and longevity.

This motor is ideal for applications in robotics, CNC machinery, and other automation systems where precision and reliability are paramount.