1FK6100-8AF71-1EH0-P812GN0600M

Industrial automation components

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Manufacturer	Siemens
Catalog number	1fk6100-8af71-1eh0-p812gn0600m
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Siemens
Part Number	1FK6100-8AF71-1EH0
Motor Type	Synchronous Servo Motor
Pole Number	8
Rated Speed	3000 RPM
Rated Torque	12.0 Nm
Cooling Type	Natural Air Cooling
Encoder Type	Incremental Encoder
Encoder Resolution	2048 PPR
Shaft Type	Plain Shaft with Tolerance N
Holding Brake	Yes
Degree of Protection	IP64

Description

The Siemens 1FK6100-8AF71-1EH0 is a synchronous servo motor from the 1FK6 series, designed for precise motion control applications. This 8-pole motor operates at a rated speed of 3000 RPM and delivers a rated torque of 12.0 Nm, making it suitable for tasks requiring consistent and reliable performance.

It features natural air cooling and is equipped with an incremental encoder with a 2048 pulses per revolution (PPR) resolution, ensuring accurate position feedback. The motor's robust construction

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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includes a plain shaft with tolerance N and a holding brake, providing enhanced safety and operational stability.

With a degree of protection rated at IP64, the motor is well-suited for industrial environments where dust and water resistance are essential. Its compact design and efficient performance make it an ideal choice for applications in automation systems, robotics, and other precision machinery.

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