1FK6103-8AF71-1EH2

Industrial automation components

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Manufacturer	Siemens
Catalog number	1fk6103-8af71-1eh2
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Siemens
Part Number	1FK6103-8AF71-1EH2
Motor Type	Synchronous Servo Motor
Continuous Torque	36 Nm
Rated Speed	3000 RPM
Cooling Type	Natural Air Cooling
Connector Rotation	270 degrees
Encoder Type	Absolute Encoder EnDat 2048 S/R
Shaft Design	Smooth Shaft with Tolerance N
Holding Brake	Included
Degree of Protection	IP65
Flange Design	DE (DIN Flange)

Description

The Siemens 1FK6103-8AF71-1EH2 is a synchronous servo motor from the 1FK6 series, designed for precise motion control in industrial automation applications. This 8-pole motor delivers a continuous torque of 36 Nm and operates at a rated speed of 3000 RPM, making it suitable for tasks requiring high torque at moderate speeds.

It features natural air cooling, eliminating the need for additional cooling systems. The motor is equipped with power and signal connectors that can rotate by 270 degrees, offering flexible

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installation options.

An absolute encoder with EnDat 2048 S/R (encoder A-2048) provides precise position feedback, essential for accurate motion control. The smooth shaft design with tolerance N ensures compatibility with various mechanical components.

A holding brake is included to maintain position when the motor is not energized. The motor's degree of protection is IP65, ensuring resistance to dust and water ingress, suitable for demanding industrial environments.

The flange design is DE (DIN flange), and the motor is rated for IP67 protection, indicating high resistance to dust and water. This motor is ideal for applications in robotics, CNC machinery, and other systems requiring precise and reliable motion control.