1FK7103-2AC7-1RG0

Industrial automation components

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Manufacturer	Siemens
Catalog number	1fk7103-2ac7-1rg0
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Siemens
Part Number	1FK7103-2AC7-1RG0
Product Type	Synchronous Motor
Rated Power	4.4 kW
Rated Speed	3000 rpm
Rated Torque	36 Nm
DC Link Voltage	600 V
Cooling Type	Naturally Cooled
IP Rating	IP64
Encoder Resolution	20-bit single-turn, 12-bit multi-turn
Flange Design	Flange 1
Power Connector	Rotatable

Description

The Siemens 1FK7103-2AC7-1RG0 is a high-performance synchronous motor from the SIMOTICS S-1FK7 series, designed for precise motion control in industrial automation applications. This motor features a rated power of 4.4 kW, a rated speed of 3000 rpm, and a rated torque of 36 Nm, ensuring reliable and efficient operation.

It operates at a DC link voltage of 600 V and is naturally cooled with an IP64 degree of protection, making it suitable for various industrial environments. The motor is equipped with an absolute

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encoder with a 20-bit single-turn and 12-bit multi-turn resolution, providing precise position feedback.

Its flange 1 design and rotatable power connector offer flexible installation options. The smooth shaft with tolerance N and the absence of a holding brake contribute to its streamlined design. This motor is ideal for applications requiring high precision and reliability, such as robotics, CNC machinery, and automated production lines.

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