1FK7083-2AH71-1TH0

Industrial automation components

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Manufacturer	Siemens
Catalog number	1fk7083-2ah71-1th0
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Siemens
Part Number	1FK7083-2AH71-1TH0
Product Type	Synchronous AC Servo Motor
Series	SIMOTICS S-1FK7
Rated Power	1.4 kW
Rated Speed	4,500 rpm
Stall Torque	16 Nm
DC Link Voltage	600 V
Mounting Flange	IM B5 (IM V1, IM V3)
Encoder System	Absolute encoder with 20-bit resolution and 12-bit multi-turn count, DRIVE-CLiQ interface
Shaft Design	Smooth shaft with tolerance N
Holding Brake	Included

Description

The Siemens 1FK7083-2AH71-1TH0 is a high-performance synchronous AC servo motor from the SIMOTICS S-1FK7 series, designed for precision motion control applications. This motor features a rated power of 1.4 kW, a rated speed of 4,500 rpm, and a stall torque of 16 Nm, ensuring reliable and efficient operation in demanding environments.

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It operates at a DC link voltage of 600 V and is naturally cooled, making it suitable for various industrial automation tasks. The motor is constructed with an IM B5 (IM V1, IM V3) mounting flange and includes a rotatable power connector for flexible installation.

It is equipped with an absolute encoder system with a 20-bit resolution and a 12-bit multi-turn count, featuring a DRIVE-CLiQ interface for seamless integration with Siemens drive systems. The smooth shaft design with tolerance N and the inclusion of a holding brake enhance its performance and safety.

With a degree of protection rated at IP65, the motor is well-suited for applications requiring high ingress protection. This motor is ideal for use in CNC machines, robotics, and other precision machinery where high torque and speed are essential.