1FK7083-2AC71-1TH0-Z

Industrial automation components

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Manufacturer	Siemens
Catalog number	1fk7083-2ac71-1th0-z
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Siemens
Part Number	1FK7083-2AC71-1TH0-Z
Product Type	Synchronous AC Servomotor
Rated Power	2.6 kW
DC Link Voltage	600 V
Rated Torque	12.5 Nm
Rated Speed	2000 rpm
Stall Torque	16 Nm
Stall Current	7.5 A
Cooling Type	Naturally Cooled
Flange Design	Flange 1
Encoder System	2-Pole Resolver

Description

The Siemens 1FK7083-2AC71-1TH0-Z is a high-performance synchronous AC servomotor from the SIMOTICS S-1FK7 series, designed for precision motion control applications. This motor features a rated power of 2.6 kW, operating at a DC link voltage of 600 V, and delivers a rated torque of 12.5 Nm at a rated speed of 2000 rpm.

It boasts a stall torque of 16 Nm and a stall current of 7.5 A, ensuring robust performance under varying load conditions. The motor is naturally cooled and constructed with a flange 1 design,

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offering versatility in installation.

It is equipped with a 2-pole resolver encoder system, providing reliable feedback for precise control. The shaft end is smooth with a tolerance N, and the motor includes a holding brake for enhanced safety during operation.

With a degree of protection rated at IP64, the motor is suitable for demanding industrial environments. This motor is ideal for applications requiring high torque and precise speed control, such as robotics, CNC machinery, and automated production lines.