1FK7083-2AF74-1AG1

Industrial automation components

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Manufacturer	Siemens
Catalog number	1fk7083-2af74-1ag1
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Siemens
Part Number	1FK7083-2AF74-1AG1
Product Type	Synchronous Motor
Rated Power	3.3 kW
Rated Speed	3000 rpm
Supply Voltage	600 V DC
Continuous Torque	16 Nm
Cooling Type	Naturally Cooled
Frame Size	IMB 5
Encoder Type	Incremental Encoder
Encoder Resolution	2048 S/R
Shaft Type	Plain Shaft

Description

The Siemens 1FK7083-2AF74-1AG1 is a SIMOTICS S synchronous motor designed for high-performance applications requiring precise control and reliability. With a rated power of 3.3 kW and a rated speed of 3000 rpm, this motor operates efficiently under a 600 V DC supply.

It delivers a continuous torque of 16 Nm, suitable for demanding industrial tasks. The motor features a naturally cooled design (IMB 5), ensuring optimal thermal management without the need for additional cooling systems.

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Equipped with a Pt1000 temperature sensor, it provides accurate monitoring of operating conditions. The rotatable incremental encoder with sin/cos 1 Vpp output and 2048 S/R resolution offers precise position feedback, enhancing control accuracy.

The motor's plain shaft with tolerance N and IP64 protection class ensure durability and suitability for various industrial environments. This model is ideal for applications in automation systems, robotics, and machinery where precision and reliability are paramount.

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