1FT7084-1AF71-1FH1

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft7084-1af71-1fh1
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Siemens
Part Number	1FT7084-1AF71-1FH1
Product Type	Synchronous Motor
Frame Size	IMB 5
Encoder Resolution	22-bit multi-turn

Description

The Siemens 1FT7084-1AF71-1FH1 is a high-performance synchronous motor from the SIMOTICS S-1FT7 series, designed for precision applications requiring reliable and efficient operation. This motor features a rated torque of 20 Nm at 100 K, a rated speed of 3,000 rpm, and a rated power output of 4.56 kW, all while being naturally cooled.

It is equipped with a rotatable power connector, ensuring flexible installation. The motor's vibration severity is classified as A, and it boasts a degree of protection IP65, making it suitable for demanding industrial environments.

The frame size is IMB 5, compatible with conventional flanges (1FT6/1FK7). An absolute encoder with a 22-bit multi-turn resolution and DRIVE-CLIQ interface (Encoder AM-22-DQ) is included, providing precise position feedback.

The motor features a plain shaft with a holding brake and an accuracy tolerance of N, ensuring secure operation. These specifications make the 1FT7084-1AF71-1FH1 ideal for applications in automation systems, robotics, and other precision machinery.

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