1FK7044-7AF71-1AH2

Industrial automation components

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Manufacturer	Siemens
Catalog number	1fk7044-7af71-1ah2
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Motor Type	Synchronous
Rated Torque	4.0 Nm
Rated Speed	3000 rpm
Rated Power	1.1 kW
Cooling Type	Natural
Frame Type	IM B5 (V1, V3)
Encoder Type	Incremental
Encoder Resolution	2048 P/R
Encoder Signal	SIN/COS 1 Vpp
Shaft End	Plain, Tolerance N
Holding Brake	Yes
Degree of Protection	IP65, IP67 at Drive End Flange

Description

The Siemens 1FK7044-7AF71-1AH2 is a high-performance synchronous servomotor from the SIMOTICS S-1FK7 series, designed for dynamic and precise motion control applications. This motor delivers a rated torque of 4.0 Nm and operates at a rated speed of 3000 rpm, providing a continuous output power of 1.1 kW.

It features natural cooling, eliminating the need for external cooling systems. The motor is housed in an IM B5 (V1, V3) frame, suitable for various mounting configurations. It is equipped with a 2048

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P/R incremental encoder with SIN/COS 1 Vpp signal output, ensuring accurate position feedback.

The shaft end is plain with tolerance N, and the motor includes a holding brake for enhanced safety during operation. With a degree of protection IP65 and IP67 at the drive end flange, the motor is well-suited for demanding industrial environments.

The 1FK7044-7AF71-1AH2 is ideal for applications requiring high dynamic performance and reliability.

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