1FK7083-5AH71-1GH3

Industrial automation components

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Manufacturer	Siemens
Catalog number	1fk7083-5ah71-1gh3
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Motor Type	Synchronous
Servomotor Type	Three-phase
Rated Speed	4500 RPM
Continuous Output Power	3.04 kW
Cooling Type	Natural air cooling
Mounting Type	IM B5 (IM V1, IM V3)
Encoder Type	Basic absolute encoder
Encoder Resolution	32 pulses per revolution
Shaft Design	Smooth shaft, radial eccentricity N
Holding Brake	Yes
Protection Class	IP64
Paint Finish	RAL7016

Description

The Siemens 1FK7083-5AH71-1GH3 is a high-performance synchronous servomotor from the SIMOTICS S series, designed for precise motion control in industrial automation applications. This three-phase servomotor operates at a rated speed of 4,500 RPM and delivers a continuous output power of 3.04 kW, making it suitable for demanding tasks requiring high torque and speed stability.

It features natural air cooling, ensuring efficient thermal management during operation. The motor is constructed with an IM B5 (IM V1, IM V3) mounting type, offering versatility in installation.

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Equipped with a basic absolute encoder with 32 pulses per revolution (A-32), it provides reliable position feedback without the need for a DRIVE-CLiQ interface.

The shaft end is designed with a smooth profile and radial eccentricity N, and includes a holding brake for enhanced safety during operation. With a degree of protection rated at IP64 and a paint finish in RAL7016, the motor is well-suited for industrial environments where dust and moisture resistance are essential.

This servomotor is ideal for applications in automotive, aerospace, power generation, and electronics industries, where precision and reliability are paramount.