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1FK7063-5AF71-1EG5

Industrial automation components

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Manufacturer	Siemens
Catalog number	1fk7063-5af71-1eg5
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Rated Torque	7.3 Nm
Standstill Torque	11 Nm
Rated Speed	3000 RPM
Rated Power Output	2.29 kW
Cooling Method	Natural Air Cooling –
Mounting Orientation	IM B5 (IM V1, IM V3) –
Encoder Type	Absolute Encoder EnDat 2048 PPR –
Encoder Performance Reduction	10 %
Shaft Type	Plain Shaft, Tolerance N –
Protection Rating	IP65 (Flange: IP67) –
Connector Rotatability	270 °

Description

The Siemens 1FK7063-5AF71-1EG5 is a high-performance synchronous servo motor from the SIMOTICS S 1FK7 series, designed for precise motion control in industrial automation applications. This compact motor delivers a rated torque of 7.3 Nm and a peak standstill torque of 11 Nm, ensuring reliable performance in demanding tasks.

Operating at a rated speed of 3000 RPM, it provides a power output of 2.29 kW (3.07 HP), suitable for various automation processes. The motor features natural air cooling, eliminating the need for external cooling systems and simplifying maintenance.

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It supports mounting orientations conforming to IM B5 (IM V1, IM V3), offering flexibility in installation. The integrated absolute encoder, EnDat 2048 PPR, delivers accurate positional feedback, with a noted performance reduction of 10% due to the encoder's bandwidth.

The plain shaft configuration has a toleranced dimension of N, ensuring compatibility with various couplings. Notably, this model does not include a holding brake, making it ideal for applications where braking is not required.

With a protection rating of IP65 (flange: IP67), the motor is suitable for use in environments where dust and water ingress are concerns. The power and signal connectors are rotatable by 270°, facilitating flexible wiring configurations.

This motor is compatible with SINAMICS S120 drives equipped with the DRIVE-CLiQ interface, enabling seamless integration into Siemens automation systems.