1FK7040-5AK71-1EG8

Industrial automation components

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Manufacturer	Siemens
Catalog number	1fk7040-5ak71-1eg8
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Rated Torque	1.6 Nm
Rated Speed	6000 rpm
Optimal Power	0.69 kW
Mounting Flange	IM B5 (IM V1, IM V3)
Connector Rotation	270 degrees
Encoder Type	Absolute Encoder (EnDat 2048 P/rev)
Performance Reduction Due to Encoder	10 %
Shaft Type	Plain Shaft, Tolerance N
Holding Brake	Without Holding Brake
Degree of Protection	IP65/IP67
Motor Coating	RAL7016

Description

The Siemens 1FK7040-5AK71-1EG8 is a SIMOTICS S synchronous servo motor from the 1FK7 Compact series, designed for high-performance applications requiring precise motion control. This motor delivers a rated torque of 1.6 Nm at a rated speed of 6,000 rpm, with an optimal power output of 0.69 kW.

It features natural air cooling and is constructed with an IM B5 (IM V1, IM V3) mounting flange, ensuring versatile installation options. The power and signal connectors are rotatable by 270°, facilitating flexible wiring configurations.

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Equipped with an absolute encoder (EnDat 2048 P/rev), the motor offers precise position feedback, with a performance reduction of approximately 10% due to the encoder. The shaft is plain with tolerance N, and the motor is designed without a holding brake.

It boasts a high degree of protection with IP65 and IP67 ratings, making it suitable for demanding industrial environments. The motor is coated with RAL7016 and features a metallic rating plate, ensuring durability and longevity in various applications.