1FK7034-5AK71-1HG5

Industrial automation components

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Manufacturer	Siemens
Catalog number	1fk7034-5ak71-1hg5
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Motor Type	Synchronous
Servo Type	Three-phase servomotor
Series	1FK7
Size	03
Length	4
Cooling	Natural
Encoder Type	Absolute encoder
Encoder Resolution	512 S/R pulses/rev
Shaft Type	Plain
Degree of Protection (Motor Housing)	IP65
Degree of Protection (Drive End Flange)	IP67
Connector Rotation	270° degrees

Description

The Siemens 1FK7034-5AK71-1HG5 is a compact synchronous servo motor from the SIMOTICS S 1FK7 series, designed for high-performance applications requiring precise motion control. This motor delivers a nominal torque of 1.6 Nm at a rated speed of 6,000 rpm, with a continuous output power of 0.63 kW.

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It operates at a DC link voltage of 600 V and features natural cooling, eliminating the need for additional cooling systems. The motor is equipped with an absolute encoder system with 512 single-turn pulses per revolution, providing precise position feedback.

Its shaft is plain with a tolerance of N, and it does not include a holding brake. The motor's degree of protection is IP65 for the motor housing and IP67 for the drive end flange, ensuring durability in various industrial environments.

The power and signal connectors are rotatable by 270°, offering flexible installation options. The motor is finished with a RAL7016 coating, providing a robust and corrosion-resistant surface. This motor is ideal for applications such as robotics, CNC machinery, and other systems requiring high-speed, precise motion control.