1FK7042-5AK71-1SG0-Z

Industrial automation components

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Manufacturer	Siemens
Catalog number	1fk7042-5ak71-1sg0-z
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Siemens
Part Number	1FK7042-5AK71-1SG0-Z
Motor Type	Synchronous
Servomotor Type	Three-phase servomotor
Series	7
Size	04
Length	2
1FK7 Type	CT (Compact)
Cooling	Non-ventilated
Rated Speed	6000 RPM
DC Link Voltage	600V
Type of Construction	IM B5

Description

The Siemens 1FK7042-5AK71-1SG0-Z is a high-performance synchronous servomotor designed for precision applications in industrial automation. Operating at a rated speed of 6000 RPM, it delivers a nominal torque of 3.0 Nm and a power output of 1.02 kW.

This three-phase servomotor features a compact design (1FK7 Type: CT) and is naturally cooled, eliminating the need for external cooling systems. It is equipped with an absolute encoder system (EnDat 2048 pulses/rev) for precise position feedback and has a degree of protection IP64, ensuring

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reliable operation in various industrial environments.

The motor is constructed with a shaft height of 71 mm and a length of 2, and it utilizes a power connector with a rotatable plug for flexible installation. The 1FK7042-5AK71-1SG0-Z is suitable for applications requiring high-speed and high-precision motion control, such as robotics, CNC machinery, and automated assembly lines.

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