AUTOMATION TRADER

1FK7042-5AK71-1FG3-Z

Industrial automation components

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Manufacturer	Siemens
Catalog number	1fk7042-5ak71-1fg3-z
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Motor Type	Synchronous
Continuous Torque	3.0 Nm
Rated Speed	6000 rpm
Power Output	1.02 kW
Cooling Type	Natural Air Cooling
Construction Type	IM B5 (IM V1, IM V3)
Encoder System	Absolute Encoder with 2048 pulses/rev and DRIVE-CLiQ interface
Connector Rotation	270°
Degree of Protection	IP64
Paint Finish	RAL7016

Description

The Siemens 1FK7042-5AK71-1FG3-Z is a compact synchronous servomotor from the SIMOTICS S series, designed for precise motion control in industrial automation applications. This motor delivers a continuous torque of 3.0 Nm and operates at a rated speed of 6000 rpm, providing a power output of 1.02 kW.

It features natural air cooling and is housed in an IM B5 (IM V1, IM V3) construction, ensuring durability and efficient performance. The motor is equipped with an absolute encoder system with 2048 pulses per revolution and a DRIVE-CLiQ interface, facilitating precise position feedback and seamless integration with Siemens drive systems.

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The power and signal connectors are rotatable by 270°, offering flexible installation options. With a degree of protection rated at IP64 and a paint finish in RAL7016, the motor is suitable for demanding industrial environments.

This model is ideal for applications requiring high precision and reliability, such as robotics, CNC machinery, and automated production lines.

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