1FT7064-5AK71-1FG2

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft7064-5ak71-1fg2
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Siemens
Part Number	1FT7064-5AK71-1FG2
Product Type	Synchronous Motor
Rated Speed	6,000 rpm
Number of Poles	10
Optimum Speed	4,500 rpm
Optimum Power	2.6 kW
Rated Torque (100 K)	2.9 Nm
Static Torque (60 K)	7.7 Nm
Static Torque (100 K)	9.0 Nm
Rated Current	3.40 A
Stall Current (60 K)	7.70 A

Description

The Siemens 1FT7064-5AK71-1FG2 is a high-performance synchronous motor from the SIMOTICS S-1FT7 series, designed for demanding industrial applications requiring precise motion control. This motor operates at a rated speed of 6,000 rpm and features a 10-pole configuration, ensuring smooth and efficient performance.

With an optimum operating point at 4,500 rpm and a rated power output of 2.6 kW, it delivers reliable and consistent torque. The rated torque at 100 K is 2.9 Nm, with a static torque of 7.7 Nm at 60 K and

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9.0 Nm at 100 K, providing robust performance across various operating conditions.

The motor's rated current is 3.40 A, with a stall current of 7.70 A at 60 K and 9.00 A at 100 K, ensuring safe and efficient operation. Designed for versatility, it supports a maximum permissible speed of 9,000 rpm mechanically and 8,000 rpm when driven by an inverter.

The maximum torque achievable is 36.0 Nm, with a maximum current of 45.00 A, accommodating demanding load conditions. The rotor moment of inertia is 11.90 kg·cm², contributing to its dynamic response and stability.

The motor operates with an efficiency of 91.0%, optimizing energy consumption. The torque constant is 1.00 Nm/A, and the voltage constant at 20º C is 64.0 V/1,000 min^{-1}, ensuring precise control over motion.

The winding resistance at 20º C is 0.39 Ω, indicating low electrical losses. This motor is suitable for integration with SINAMICS S120 drive systems, offering a comprehensive solution for motion control applications.