AUTOMATION TRADER

1FT6082-8AK72-4AD1-Z

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft6082-8ak72-4ad1-z
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Siemens
Part Number	1FT6082-8AK72-4AD1-Z
Motor Type	Synchronous Servo Motor
Nominal Speed	6000 rpm
Nominal Voltage	270 V
Nominal Current	14.7 A
Cooling Method	Natural Cooling
Shaft Design	Special Shaft
Encoder System	Resolver
Construction Standard	IM B14
Connector Outlet Direction	Axial DE
Protection Degree	IP64

Description

The Siemens 1FT6082-8AK72-4AD1-Z is a high-performance synchronous servo motor from the SIMOTICS S series, designed for precision motion control applications. This motor features a brushless design, ensuring efficient operation and reduced maintenance requirements.

It operates at a nominal speed of 6,000 revolutions per minute (rpm), making it suitable for applications requiring high-speed performance. The motor is rated for a nominal voltage of 270 volts and operates at a current of 14.7 amperes, providing robust power output for demanding tasks.

Its natural cooling method ensures reliable performance without the need for additional cooling systems. The motor is equipped with a special shaft design, enhancing its mechanical stability and performance.

It utilizes a resolver encoder system, offering precise position feedback essential for accurate motion control. The motor's construction adheres to the IM B14 standard, featuring an axial connector outlet direction, which simplifies integration into various systems.

With a vibration severity grade of N and a protection degree of IP64, the motor is built to withstand industrial environments, offering durability and longevity. This servo motor is ideal for applications in robotics, CNC machinery, and other automation systems where precise and reliable motion control is critical.