1FT6081-8AH72-3SG0

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft6081-8ah72-3sg0
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Frame Size	08
DC Link Voltage	600V
Encoder System	15-bit resolver with DRIVE-CLiQ interface
Shaft End	Plain shaft (radial eccentricity - N) with holding brake
Cooling Method	Natural cooling
Rated Speed	4500 rpm
Degree of Protection	IP64

Description

The Siemens 1FT6081-8AH72-3SG0 is an AC synchronous servo motor designed for precise motion control applications in industrial automation. Manufactured by Siemens, this motor is part of the 1FT6 series, known for its high performance and reliability.

Key features include a frame size of 08, indicating a compact design suitable for space-constrained environments. The motor operates with a DC link voltage of 600V, ensuring compatibility with standard industrial power systems.

It utilizes a 15-bit resolver encoder system with a DRIVE-CLiQ interface, providing accurate position feedback essential for precise control. The shaft end is configured with a plain shaft (radial eccentricity - N) and includes a holding brake, enhancing safety and operational stability.

The motor is rated for natural cooling, making it suitable for environments where forced cooling is not feasible. With a rated speed of 4500 rpm, it delivers consistent performance across various applications.

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The degree of protection is IP64, offering a moderate level of ingress protection against dust and water, suitable for indoor industrial environments. This motor is ideal for applications requiring precise motion control, such as robotics, CNC machinery, and automated assembly lines.

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