1FT6082-8AF71-4AG3-Z

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft6082-8af71-4ag3-z
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Siemens
Part Number	1FT6082-8AF71-4AG3-Z
Product Type	Synchronous AC Servo Motor
Rated Torque	13 Nm
Rated Speed	3000 rpm
Cooling Method	Natural Cooling
Mounting Flange	IM B5
Encoder Type	Incremental Encoder
Encoder Signal	1 Vpp sin/cos
Encoder Resolution	2048 counts per revolution
Shaft End	Smooth Shaft
Holding Brake	Not Included

Description

The Siemens 1FT6082-8AF71-4AG3-Z is a synchronous AC servo motor from the SIMOTICS S series, designed for high-performance applications requiring precise motion control. This motor features a rated torque of 13 Nm, a rated speed of 3000 rpm, and operates with natural cooling, eliminating the need for external ventilation.

It is constructed with an IM B5 mounting flange, suitable for various installation orientations. The motor is equipped with an incremental encoder providing a 1 Vpp sin/cos signal with 2048 counts per

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revolution, ensuring accurate position feedback.

The shaft end is smooth with a radial runout tolerance of N, and it does not include a holding brake. The motor has a vibration severity grade of N and is sealed to an IP64 protection class, offering resistance against dust and water ingress.

These specifications make the 1FT6082-8AF71-4AG3-Z motor ideal for applications in robotics, CNC machinery, and other systems requiring precise and reliable motion control.