1FT6084-8AH71-3AG1

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft6084-8ah71-3ag1
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Siemens
Part Number	1FT6084-8AH71-3AG1
Product Type	Synchronous Servomotor
Rated Torque	20 Nm
Rated Speed	4500 rpm
Mounting Flange	IM B5 (IM V1, IM V3)
Encoder Type	Incremental Encoder
Encoder Signal	sin/cos 1 Vpp
Encoder Resolution	2048 pulses per revolution
Shaft Design	Smooth Shaft
Holding Brake	Without Holding Brake
Sealing Ring	Gamma Sealing Ring (IP65)

Description

The Siemens 1FT6084-8AH71-3AG1 is a high-performance synchronous servomotor from the SIMOTICS S series, designed for precision motion control applications. This model features a rated torque of 20 Nm, a rated speed of 4500 rpm, and operates with natural air cooling, ensuring efficient thermal management.

It is constructed with an IM B5 (IM V1, IM V3) mounting flange, suitable for various installation configurations. The motor is equipped with an incremental encoder providing sin/cos 1 Vpp signals

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with 2048 pulses per revolution, facilitating precise position feedback.

The shaft design is smooth with a circular runout tolerance of N, and it operates without a holding brake, making it ideal for applications where braking is not required. The motor's vibration severity grade is N, indicating low vibration levels during operation.

Additionally, it features a Gamma sealing ring with an IP65 ingress protection rating, offering robust protection against dust and water ingress. This motor is well-suited for applications requiring high torque and speed precision, such as robotics, CNC machinery, and automated production lines.