1FT6105-8AF71-3FH1

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft6105-8af71-3fh1
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Siemens
Part Number	1FT6105-8AF71-3FH1
Product Type	Synchronous Servo Motor
Rated Torque	50 Nm
Rated Speed	3000 rpm
Cooling Method	Natural cooling
Encoder Type	Absolute Encoder (EnDat 2048 S/R)
Interface	DRIVE-CLiQ
Construction Standard	IM B5 (IM V1, IM V3)
Connector Outlet Direction	Axial NDE
Shaft Design	Smooth Shaft
Sealing Ring	Gamma Sealing Ring (IP65)

Description

The Siemens 1FT6105-8AF71-3FH1 is a high-performance synchronous servo motor from the SIMOTICS S series, designed for precision motion control applications. This motor features a rated torque of 50 Nm, a rated speed of 3000 rpm, and operates with natural cooling, making it suitable for various industrial automation tasks.

It is equipped with an absolute encoder (EnDat 2048 S/R) and a DRIVE-CLiQ interface, ensuring precise position feedback and seamless integration with Siemens drive systems. The motor's construction

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adheres to the IM B5 (IM V1, IM V3) standard, with an axial NDE connector outlet direction, facilitating flexible installation.

Its smooth shaft design, circular runout tolerance N, and absence of a holding brake contribute to its reliability and performance. The motor is rated for vibration severity grade N and features a gamma sealing ring (IP65), providing protection against dust and water ingress.

This motor is ideal for applications requiring high torque and speed precision, such as robotics, CNC machinery, and automated assembly lines.

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