1FT6105-8AF71-1EB1

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft6105-8af71-1eb1
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Siemens
Part Number	1FT6105-8AF71-1EB1
Product Type	Synchronous Servo Motor
Rated Torque	50 Nm
Rated Speed	3000 rpm
Typ montażu	IM B5 (IM V1, IM V3)
Connector Outlet Direction	Transverse Right
Encoder Type	Absolute Encoder (EnDat 2048 S/R)
Shaft Design	Smooth Shaft with Circular Runout Tolerance N
Holding Brake	Yes
Sealing Ring	Gamma Sealing Ring (IP65)

Description

The Siemens 1FT6105-8AF71-1EB1 is a high-performance synchronous servo motor from the SIMOTICS S series, designed for precision motion control applications. This model features a rated torque of 50 Nm and operates at a speed of 3000 rpm, making it suitable for demanding industrial tasks requiring reliable and efficient performance.

The motor is naturally cooled, ensuring optimal thermal management during operation. It is configured with an IM B5 (IM V1, IM V3) mounting, facilitating easy integration into various machinery setups.

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The power and signal connectors are positioned with a transverse right outlet direction, streamlining wiring and installation processes. Equipped with an absolute encoder (EnDat 2048 S/R), the motor provides precise position feedback, essential for applications where accuracy is paramount.

The shaft design includes a smooth shaft with a circular runout tolerance of N, and it is fitted with a holding brake, enhancing safety and control during operation. The motor's vibration severity grade is N, indicating low vibration levels for smooth operation.

Additionally, it features a Gamma sealing ring (IP65), offering robust protection against dust and water ingress, thereby extending the motor's service life in challenging environments. This motor is ideal for applications in robotics, CNC machinery, and other automation systems where high torque, speed, and precision are critical.