1FT5073-0AF01-0-Z

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft5073-0af01-0-z
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Frame Size	71 mm
Rated Speed	2000 RPM
Cooling Type	Non-ventilated
Mounting Type	IM B5 (IM V1, IM V3)
Rated Torque	8.0 Nm
Maximum Torque	28 Nm
DC Link Voltage	600 V
Torque Constant	1.64 Nm/A
Voltage Constant	186 V/1000 RPM
Winding Resistance	3.06 Ohm
Rotating Field Inductance	25.7 mH

Description

The Siemens 1FT5073-0AF01-0-Z is a high-performance AC servomotor designed for precision motion control applications. Part of Siemens' 1FT5 series, this motor features a frame size of 71 mm and a length of 3, ensuring a compact yet robust design suitable for various industrial settings.

It operates at a rated speed of 2000 RPM and is engineered for non-ventilated cooling, making it ideal for environments where space and cooling efficiency are critical. The motor's construction adheres to the IM B5 (IM V1, IM V3) mounting standards, offering versatility in installation.

Automation Trader
960 Capability Green
Luton, Bedfordshire LU1 3PE
VAT ID: PL6463009354
REGON: 527345886
DUNS: 427734105
BDO: 000726360

Phone
+44 7418 359 399

Email
info@automationtrader.com

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With a rated torque of 8.0 Nm and a maximum torque of 28 Nm, it delivers reliable performance across a range of applications. The 1FT5073-0AF01-0-Z is engineered for a DC link voltage of 600 V, aligning with standard industrial power systems.

Its design includes a torque constant of 1.64 Nm/A and a voltage constant of 186 V/1000 RPM, ensuring efficient energy conversion and precise speed control. The motor's winding resistance is 3.06 Ohm, and it has a rotating field inductance of 25.7 mH, contributing to its stable operation.

Additionally, the motor's moment of inertia is 27.5 x 10^{-4} kgm^2 with a brake and 20 x 10^{-4} kgm^2 without, indicating its suitability for dynamic applications requiring rapid acceleration and deceleration.

This servomotor is ideal for applications in robotics, CNC machinery, and other automation systems where precision and reliability are paramount.