1FT5076-1AF71-1AG0

Industrial automation components

Add to quote

Ask about this product



Manufacturer	Siemens
Catalog number	1ft5076-1af71-1ag0
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Rated Speed	3000 RPM
Rated Torque	16.5 Nm
Standstill Torque at 60 K	18.0 Nm
Standstill Torque at 100 K	22.0 Nm
Moment of Inertia with Brake	58.4 10^{-4} kg·m²
Moment of Inertia without Brake	50.9 10^{-4} kg·m²
Protection Class	IP64
Cooling Type	Naturally cooled
Feedback System	Tachogenerator and shaft position encoder
Prepared for Encoder Mounting	Yes
Shaft Design	Fitted key/groove

Description

The Siemens 1FT5076-1AF71-1AG0 is a high-performance AC servo motor designed for precise motion control applications. Operating at a rated speed of 3000 RPM, it delivers a rated torque of 16.5 Nm, making it suitable for tasks requiring consistent and reliable performance.

The motor operates at a rated current of 16.0 A and offers a standstill torque of 18.0 Nm at 60 K and 22.0 Nm at 100 K, ensuring robust startup capabilities. With a moment of inertia of 58.4 x 10^{-4} kg·m² (with brake) and 50.9 x 10^{-4} kg·m² (without brake), it provides stability during dynamic operations.

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

Generated on demand. The PDF file is not stored on the server.

The motor features an IP64 protection class, ensuring resistance against dust and water ingress, and is naturally cooled, eliminating the need for additional cooling systems. Its design includes a tachogenerator and shaft position encoder for precise feedback, and it is prepared for encoder mounting, offering flexibility for various applications.

The shaft is equipped with a fitted key/groove, facilitating secure coupling with other components. This motor is ideal for applications in robotics, CNC machinery, and other automation systems where precision and reliability are paramount.