1FT5106-0AC21-2-Z

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft5106-0ac21-2-z
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Siemens
Part Number	1FT5106-0AC21-2-Z
Product Type	AC Servo Motor
Rated Speed	2000 rpm
Rated Torque	39.0 Nm
Rated Current	25.0 A
Standstill Torque (60 K)	45.0 Nm
Winding Resistance	0.15 Ohm
Rotating Field Inductance	2.9 mH
Cooling Type	Air Cooling
Protection Class	IP64
Mounting Configuration	IM B5 (IM V1, IM V3)

Description

The Siemens 1FT5106-0AC21-2-Z is a high-performance AC servo motor designed for precision motion control applications. Manufactured by Siemens, a leader in industrial automation, this motor is part of the 1FT5 series, known for its reliability and efficiency.

The 1FT5106-0AC21-2-Z model features a rated speed of 2000 RPM and a rated torque of 39.0 Nm, making it suitable for applications requiring consistent and precise torque output. It operates with a rated current of 25.0 A and has a standstill torque of 45.0 Nm at 60 K.

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The motor's winding resistance is 0.15 Ohm, and it has a rotating field inductance of 2.9 mH, ensuring stable performance. Designed for air cooling, it offers an IP64 protection class, providing resistance against dust and water ingress.

The motor is equipped with a tachogenerator and shaft position encoder, enhancing its precision and control capabilities. Its weight is approximately 45 kg, and it is designed for mounting in the IM B5 (IM V1, IM V3) configuration, suitable for various industrial setups.

This motor is ideal for applications in robotics, CNC machinery, and other systems requiring precise and reliable motion control.