1FT5102-0SG71-1

Industrial automation components

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Manufacturer	Siemens
Catalog number	1ft5102-0sg71-1
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Motor Type	Permanent Magnet Synchronous AC Feed Motor
Rated Speed	4000 rpm
Standstill Torque	40 Nm
Protection Class	IP64
Mounting Frame	IM B5

Description

The Siemens 1FT5102-0SG71-1 is a high-performance permanent magnet synchronous AC feed motor designed for demanding industrial applications. Operating on a 600 V DC-link supply, it delivers a standstill torque of 40 Nm at a 100 K temperature rise, ensuring reliable performance in heavy-duty environments.

The motor features forced mechanical ventilation, enhancing heat dissipation and enabling continuous operation at a rated speed of 4000 rpm. Its robust construction includes an IP64 degree of protection, safeguarding against dust and moisture ingress.

The IM B5 mounting frame allows for versatile installation orientations, accommodating both IM V1 and IM V3 configurations. Electrical connections are facilitated through dedicated power and signal connectors, ensuring secure and efficient integration into control systems.

This motor is ideal for applications requiring precise speed and torque control, such as CNC machinery, large manufacturing axes, and complex industrial positioning systems.

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