AUTOMATION TRADER

1FL6094-1AC61-0LB1

Industrial automation components

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Manufacturer	Siemens
Catalog number	1fl6094-1ac61-0lb1
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Rated Speed	2000 rpm
Moc znamionowa	5.00 kW
Rated Torque	23.90 Nm
Maximum Torque	70.00 Nm
Encoder System	Absolute encoder 20-bit + 12-bit multi-turn
Holding Brake Torque	30.00 Nm
Degree of Protection	IP65
Waga netto	30.30 kg

Description

The Siemens 1FL6094-1AC61-0LB1 is a high-performance SIMOTICS S-1FL6 servo motor designed for precision motion control applications. Operating at 3-phase AC 400 V, it delivers a rated power of 5.00 kW (6.80 hp) at a rated speed of 2,000 rpm, with a maximum speed of 2,500 rpm.

The motor provides a rated torque of 23.90 Nm and a maximum torque of 70.00 Nm, ensuring reliable performance in demanding industrial environments. It features a permanent-magnet synchronous motor design with a shaft height of 90 mm and includes an absolute encoder system with 20-bit resolution and 12-bit multi-turn capability, enhancing position accuracy.

The motor is equipped with a holding brake, offering a holding torque of 30.00 Nm, and has a degree of protection rated at IP65, ensuring durability and protection against dust and water ingress. With a net weight of 30.30 kg, it is suitable for integration with SINAMICS V70 and V90 converters, making it ideal for applications requiring precise speed and position control.