1FL6054-2AF21-0AG1

Industrial automation components

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Manufacturer	Siemens
Catalog number	1fl6054-2af21-0ag1
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Operating Voltage	230 V 3 AC
Rated Power	2 kW
Rated Speed	3,000 rpm
Rated Torque	6.37 Nm
Shaft Height	50 mm
Encoder Type	Incremental Encoder
Encoder Signal	TTL
Encoder Resolution	2,500 increments/rev
Shaft Type	Plain Shaft with Feather Key
Holding Brake	Without Holding Brake
Protection Class	IP65
Compatibility	SINAMICS V90 Converters

Description

The Siemens 1FL6054-2AF21-0AG1 is a SIMOTICS S-1FL6 servo motor designed for dynamic and precise motion control applications. Operating at a voltage of 230 V 3 AC, it delivers a rated power of 2 kW and a rated speed of 3,000 rpm, providing a rated torque of 6.37 Nm.

The motor features a shaft height of 50 mm and is equipped with an incremental encoder with a TTL signal and 2,500 increments per revolution. It has a plain shaft with a feather key and operates without a holding brake.

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The motor is rated with an IP65 degree of protection, ensuring resistance against dust and water ingress. It is compatible with SINAMICS V90 converters, making it suitable for various industrial automation applications requiring high-performance servo motors.

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