

1FK7044-7AF71-1SG5

Industrial automation components

Manufacturer	Siemens
Catalog number	1fk7044-7af71-1sg5
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Siemens
Part Number	1FK7044-7AF71-1SG5
Product Type	Synchronous Servo Motor
Rated Speed	3,000 rpm
Rated Power	1.1 kW
Cooling Type	Natural Cooling
Mounting Flange	IM B5 (V1, V3)
Connector Rotation	270° degrees
Encoder System	Multi-pole Resolver
Shaft Keyway	With Keyway, Tolerance N
Holding Brake	Without Holding Brake
Degree of Protection	IP65 (Motor Housing), IP67 (Drive End Flange)

Description

The Siemens 1FK7044-7AF71-1SG5 is a high-performance synchronous servo motor from the SIMOTICS S series, designed for dynamic applications requiring precise control and reliability. Operating at a rated speed of 3,000 rpm and delivering 1.1 kW of power, this motor is ideal for tasks demanding high torque and rapid response. It features natural cooling, eliminating the need for external cooling systems, and is constructed with an IM B5 (V1, V3) mounting flange for versatile installation. The power and signal connectors are rotatable by 270°, facilitating flexible wiring configurations. Equipped with a multi-pole resolver encoder system, it ensures accurate position feedback without the DRIVE-CLiQ interface. The motor's shaft includes a keyway with tolerance N, and it is designed without a holding brake, suitable for applications where external braking systems are utilized. With a degree of protection rated at IP65 for the motor housing and IP67 for the drive end flange, it offers robust protection against dust and water ingress, ensuring reliable operation in various industrial environments. The motor's net weight is approximately 7.703 kg, making it suitable for integration into compact machinery where space and weight considerations are critical.