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1FK7080-2AF71-1AH1

Industrial automation components

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Manufacturer	Siemens
Catalog number	1fk7080-2af71-1ah1
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Rated Power	2.1 kW
Rated Torque	8 Nm
Rated Speed	3000 rpm
Rated Voltage	600 V DC
Mounting Type	Flange 1 –
Cooling Type	Natural –
Encoder Type	20-bit single-turn absolute –
Interface Type	DRIVE-CLiQ –
Shaft Type	Smooth with feather key, tolerance N –
Protection Rating	IP65 –

Description

The Siemens 1FK7080-2AF71-1AH1 is a compact synchronous AC servo motor from the SIMOTICS S-1FK7 series, designed for precise motion control in industrial automation applications. With a rated power of 2.1 kW and a rated torque of 8 Nm at 3000 rpm, it delivers reliable performance for demanding tasks.

The motor operates at a rated voltage of 600 V DC and features natural cooling, ensuring efficient heat dissipation during operation. Its flange 1 mounting and rotatable power connector facilitate flexible installation in various setups.

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Equipped with a 20-bit single-turn absolute encoder with a DRIVE-CLiQ interface, it provides precise position feedback for accurate control. The smooth shaft with feather key and tolerance N ensures secure coupling with connected components.

Designed without a holding brake, the motor is suitable for applications where external braking mechanisms are utilized. With an IP65 protection rating, it offers robust resistance against dust and water ingress, making it suitable for harsh industrial environments.

This motor is ideal for applications requiring high precision and reliability, such as robotics, CNC machinery, and automated assembly lines.

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