1FK7101-2AC71-1AH1

Industrial automation components

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Manufacturer	Siemens
Catalog number	1fk7101-2ac71-1ah1
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Rated Power	4.3 kW
Rated Speed	2000 rpm
Rated Torque	20.5 Nm
Rated Voltage	600 V
Encoder Type	20-bit single-turn absolute encoder with Drive-CLiQ interface
Flange Design	Flange 1
Power Connector	Rotatable
Shaft Type	Smooth with tolerance N
Holding Brake	Included
Protection Class	IP65

Description

The Siemens 1FK7101-2AC71-1AH1 is a high-performance synchronous servomotor from the SIMOTICS S series, designed for precision motion control applications. With a rated power of 4.3 kW and a rated speed of 2000 rpm, it delivers a rated torque of 20.5 Nm at 100% rated speed.

The motor operates at a rated voltage of 600 V and features a naturally cooled design (IMB 5), ensuring efficient thermal management. It is equipped with a 20-bit single-turn absolute encoder with a Drive-CLiQ interface (encoder AS20DQI), providing precise position feedback.

The motor's flange design is Flange 1, and it includes a rotatable power connector for flexible installation. The shaft is smooth with a tolerance N and includes a holding brake, offering enhanced

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safety and control.

With an IP65 degree of protection, the motor is suitable for demanding industrial environments. This motor is ideal for applications requiring high torque and precise speed control, such as robotics, CNC machinery, and automated production lines.

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