

SIMOTICS S 1FK7

Product Data Sheet

1FK7042-5AF71-1FH2

Synchronous Servo Motor

TORQUE	SPEED	POWER	WEIGHT
3.0 Nm	3000 rpm	0.82 kW	5.502 kg

Siemens 1FK7042-5AF71-1FH2 is a SIMOTICS S 1FK7 Compact synchronous servo motor rated 3.0 Nm, 3000 rpm and 0.82 kW. The configuration includes a DRIVE-CLiQ absolute encoder and a holding brake.

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VERIFIED TECHNICAL DATA

Product family	SIMOTICS S 1FK7 Compact
Rated torque	3.0 Nm
Rated speed	3000 rpm
Rated power	0.82 kW
Cooling	Naturally cooled
Mounting	IM B5 (IM V1, IM V3)
Encoder	Absolute, 2048 p/rev, DRIVE-CLiQ
Shaft / brake	Plain shaft, tolerance N / holding brake
Protection	IP65; drive-end flange IP67
Net weight	5.502 kg

Technical values are limited to the exact Siemens product record and applicable official manual.

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PRODUCT IDENTITY AND FUNCTION

The exact order record specifies natural cooling, IM B5 mounting with IM V1 and IM V3 positions, a plain shaft with tolerance N, and power/signal connector plugs rotatable through 270 degrees.

This motor is a configurable spare part. Siemens identifies 1FK7 Generation 2 as the successor generation; replacement selection still requires matching mechanical, encoder, brake and drive-system requirements.

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OFFICIAL APPLICATIONS

- Servo axes requiring dynamic position and speed control
- Machine motion with DRIVE-CLiQ feedback
- Applications requiring an integrated holding brake
- Naturally cooled compact servo-motor installations

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SYSTEM COMPATIBILITY

The exact motor includes a DRIVE-CLiQ encoder interface. Drive-system selection and commissioning must follow the relevant Siemens configuration and operating manuals.

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OFFICIAL SOURCES

[Siemens exact product record](#)

[Synchronous Motors 1FK7 Operating Instructions](#)

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