

SIMOTICS S 1FK7

Installation Instructions

1FK7042-5AF71-1FH2

Synchronous Servo Motor

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

Prepared from the exact Siemens product record and the applicable official Siemens manual. This guide does not replace the current controlled manufacturer instructions.

01 PRODUCT VERIFICATION

Article number	1FK7042-5AF71-1FH2
Product	Synchronous Servo Motor
Family	SIMOTICS S 1FK7
Product family	SIMOTICS S 1FK7 Compact
Rated torque	3.0 Nm
Rated speed	3000 rpm
Rated power	0.82 kW

02 BEFORE INSTALLATION

- Use the lifting and handling instructions in the Siemens 1FK7 operating manual and protect the shaft and encoder system from impact.
- Mount the motor in an approved IM B5, IM V1 or IM V3 position and secure all fixing elements before coupling the load.

03 INSTALLATION SCHEMATIC

Functional installation reference - not to scale. Confirm final wiring and dimensions in the Siemens manual.



04 INSTALLATION SEQUENCE

- 01 Use the lifting and handling instructions in the Siemens 1FK7 operating manual and protect the shaft and encoder system from impact.
- 02 Mount the motor in an approved IM B5, IM V1 or IM V3 position and secure all fixing elements before coupling the load.
- 03 Connect protective earth, power, signal and holding-brake circuits with the drive isolated from the supply.
- 04 Observe the permitted connector rotation and do not apply continuous mechanical load to the connector or cable.

05 PRE-ENERGIZATION REVIEW

- ☐ Exact article number and configured system verified
- ☐ Mounting, clearances and environmental limits checked
- ☐ Protective earth, supply and communication wiring inspected
- ☐ Current Siemens manual and commissioning record retained

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OFFICIAL DOCUMENTATION

Synchronous Motors 1FK7 Operating Instructions (610.40700.40c)

[Open current Siemens manual](#)

[Open Siemens exact product record](#)

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TECHNICAL HANDOVER

Record the installed article number, firmware or parameter set where applicable, network addresses, terminal connections, protective-device settings and functional test results. Retain the current controlled Siemens documentation with the machine file.

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SUPPORT CONTACT

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