1FK7080-5AF71-1SA0

Industrial automation components

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Manufacturer	Siemens
Catalog number	1fk7080-5af71-1sa0
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Product Type	Motor
Manufacturer	Siemens
Motor Type	Synchronous
Rated Torque	8 Nm
Rated Speed	3000 rpm
Optimal Power	2.14 kW
Cooling Type	Natural Air Cooling
Mounting Type	IM B5 (IM V1, IM V3)
Connector Rotation	270°
Encoder System	Multi-pole Resolver (P=4)
Shaft Key	Fitted Key with Tolerance N
Holding Brake	None
Degree of Protection	IP64

Description

The Siemens 1FK7080-5AF71-1SA0 is a compact synchronous servomotor from the SIMOTICS S series, designed for precise motion control in industrial applications. This motor features a rated torque of 8 Nm, a rated speed of 3000 rpm, and an optimal power output of 2.14 kW.

Automation Trader
960 Capability Green
Luton, Bedfordshire LU1 3PE
VAT ID: PL6463009354
REGON: 527345886
DUNS: 427734105
BDO: 000726360

Phone
+44 7418 359 399

Email
info@automationtrader.com

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It operates with natural air cooling and is constructed with an IM B5 (IM V1, IM V3) mounting type. The power and signal connectors are rotatable by 270°, facilitating flexible installation. The motor is equipped with a multi-pole resolver (P=4) encoder system, ensuring accurate position feedback.

Its shaft includes a fitted key with tolerance N, and it lacks a holding brake. The degree of protection is IP64, providing adequate resistance against dust and water ingress. This motor is suitable for applications requiring high precision and reliability, such as robotics, CNC machinery, and automated production lines.